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**DRAWINGS**

**US EPA New England  
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Image Target Sheet**

**RDMS Document ID #** 2585

**Facility Name:** PRATT & WHITNEY - MAIN STREET

**Facility ID#:** CTD990672081

**Phase Classification:** R-1B

**Purpose of Target Sheet:**

**Oversized (in Site File)**       **Oversized (in Map Drawer)**

**Page(s) Missing (Please Specify Below)**

**Privileged**                       **Other (Provide Purpose Below)**

**Description of Oversized Material, if applicable:**

**DRAWING 1: SOIL INVESTIGATIONS, SOUTH  
KLONDIKE DEBRIS PILE, LOCATION &  
CONSTITUENTS DETECTED MAP**

**Map**       **Photograph**       **Other (Specify Below)**

**\* Please Contact the EPA New England RCRA Records Center to View This Document \***

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**Description of Oversized Material, if applicable:**

**DRAWING 1: SOIL INVESTIGATIONS, SOUTH  
KLONDIKE UNDEVELOPED LAND, LOCATION &  
CONSTITUENTS DETECTED MAP**

**Map**       **Photograph**       **Other (Specify Below)**

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TABLE 1  
ENVIRONMENTAL UNITS

Airport/Klondike Area  
Pratt & Whitney Main Street Facility

	AREA USTM	INDIVIDUAL USTM	DATE SUBMITTED	DATE REVIEWED	DATE REVISED
<b>NORTH AIRPORT AREA</b>					
<b>Rentschler Airport</b>	X		3/31/98	4/9/98	4/21/98
Runway Area	O				
Former Army Barracks Septic Systems		X	5/15/98		
<b>Silver Lane Pickle Company</b>					
Underground Storage Tanks		X			
Soil Piles		X			
<b>NORTH KLONDIKE AREA</b>					
<b>X-401 Area</b>	X		4/2/98	4/9/98	
X-401 Test Stand	O				
X-402 Test Stand	O				
X-403 Test Stand	O				
Equipment Shed	O				
Pavilion	O				
Locker Room	O				
Fire Training Area C		X			
X-401 Drywells		X			
X-401 Locker Room Septic System		X			
<b>X-410 Area</b>	X		3/31/98	4/9/98	
X-442 Storage Room	O				
X-196 Control Room	O				
X-410 Test Stand	O				
X-411 Test Stand	O				
X-412 Test Stand	O				
X-411 Control Room	O				
X-411 Compressor Room	O				
Maintenance and Storage Building	O				
X-410 Drain Pipe		X			
Maintenance and Storage Septic System		X			
X-410 Oil Rack		X	4/21/98	4/30/98	
<b>X-415 Area</b>	X		4/3/98	4/9/98	
X-415 Combustion Lab	O				
X-416 Test Stand	O				
X-417 Test Stand	O				
X-419 and X-420 Test Stands	O				
X-426 and X-427 Test Stands	O				
X-449 Test Stand	O				
X-450 Test Stand	O				
X-451 Test Stand	O				
Infra-Red Lab X-450	O				
X-415 Septic System and Drywell		X			
X-415 Boiler Room AST		X			
<b>MERL Area</b>	X		3/31/98	4/9/98	
MERL Explosives Forming Control Room	O				
Storage Building	O				
Undesignated Building	O				
Fire Training Area D		X	4/29/98		
MERL Drywell		X			
<b>Explosives Storage Area</b>	X		4/2/98	4/9/98	
Outside Storage Area	O				
Fill Area		X			
Underground Storage Tank		X			
Explosives Storage Building		X			
Outside Chemical Storage Shed		X			
Chemical Storage Building		X			
<b>North Klondike Undeveloped Land Area</b>	X		4/3/98	4/9/98	
Undeveloped Land	O				
Outside Storage Area		X			
Soil Piles		X			
<b>X-430 Area</b>	X		3/31/98	4/9/98	
X-430 Test Stand	O				
X-431 Test Stand	O				
X-432 Test Stand	O				
X-433 Test Stand	O				
X-434 Test Stand	O				
X-435 Test Stand	O				
X-436 Test Stand	O				
Stainless Steel Tank		X			
Aboveground Storage Tank		X			
<b>X-407 Area</b>	X		3/31/98	4/9/98	
X-404 Test Stand	O				
X-405 Test Stand	O				

TABLE 1  
ENVIRONMENTAL UNITS

Airport/Klondike Area  
Pratt & Whitney Main Street Facility

	AREA USTM	INDIVIDUAL USTM	DATE SUBMITTED	DATE REVIEWED	DATE REVISED
X-406 Test Stand	O				
X-407 Test Stand	O				
X-408 Test Stand	O				
X-408 Test Rig Room	O				
X-409 Test Stand	O				
North Klondike Fire Pump House	O				
Compressor Building	O				
PCB Storage Building		X			
<b>X-194 (X-448) Area</b>	X				
X-448 Test Stand	O				
Control Room	O				
Block House	O				
Outside Storage	O				
X-194 Area	O				
Aboveground Storage Tank		X	5/15/98		
<b>X-312/X-314 Area</b>	X		4/2/98	4/9/98	
X-312 Test Stand	O				
X-314 Test Stand	O				
X-312 Tank Farm		X			
X-314 Septic System		X			
<b>SOUTH KLONDIKE AREA</b>					
<b>Tie-Down Area</b>	X		4/2/98	4/9/98	
X-309 Test Stand	O				
Fire Training Area A & B-24 Test Stand		X			
USTs and AST		X			
<b>Firing Range Area</b>					
Firing Range		X	5/15/98		
<b>Former Linde Gas/Chemical Storage Building Area</b>					
Former Linde Gas		X			
Linde Bldg, Fuel Oil UST, Load/Unload		X			
Drums and Dumpster Areas		X	5/15/98		
Former Underground Storage Tank		X			
Linde Septic System		X			
<b>Cryogenics</b>	X				
South Klondike Fire Pump House	O				
Cryogenics Building	O				
Cryogenics Drywell & Septic System		X			
Underground Storage Tank		X			
Aboveground Storage Tank		X			
		X			
<b>Virgin Products Storage Area</b>					
Storage Area 2		X			
Storage Area 3		X			
Quonset Hut/Drum Storage Area		X			
<b>X-307 Area</b>	X		4/3/98	4/9/98	
Test Stand X-307	O				
X-307 Septic System		X			
X-307 Rubble Piles		X	4/29/98		
<b>South Klondike Undeveloped Land Area</b>	X		4/3/98	4/9/98	
Undeveloped Land	O				
Debris Piles		X			
<b>SOUTH AIRPORT AREA</b>					
<b>Fire Training Area B</b>					
Fire Training Area B		X			
<b>Contractor Storage Area</b>					
Contractor Storage Area		X			
<b>Former Storage Area</b>					
RCRA Waste Piles		X			
<b>Tank Trailer Storage Area</b>					
Tank Trailer Storage Area		X			
<b>South Airport Fill Area</b>					
Fill Area		X			

# DRAFT

## **UNIT-SPECIFIC TECHNICAL MEMORANDUM: FIRING RANGE PRATT & WHITNEY, EAST HARTFORD, CT**

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**AREA:** South Klondike

**SUB-AREA:** Firing Range

**ENVIRONMENTAL UNIT:** Firing Range

**Location:** This unit is located in the South Klondike Area north of the South Access Road from Perimeter Road as shown on Drawing 1.

**Description:** A firing range was identified on a land surveyor's map of the South Klondike Area (Petersen & Hoffman, 1964). The firing range consisted of a firing mound to the west and a kidney-shaped earthen backstop, approximately 20 feet high and 100 feet long, to the east (Petersen & Hoffman, 1956).

**Dates of Operation:** Pre-1948 to Unknown.

**Processes:** Possible target practice with unknown firearms. The firearms would have been fired from the firing mound with the projectiles likely entering the backstop.

**Aerial Photographs:** A 1948 aerial photograph shows corridors between the firing mound to the west and the backstop to the east which may represent devegetated pathways (Town of East Hartford). A 1965 photograph displays the earthen backstop overgrown with vegetation (Keystone Aerial Surveys, Inc).

**Specific Contaminants of Concern:** The specific contaminant of concern is lead from spent ammunition. In order to be as comprehensive as possible in the investigation that was conducted, arsenic, barium, cadmium, chromium, mercury, nickel, selenium, silver, and zinc were also analyzed.

**Potential Release Mechanism:** Impacts to soils and groundwater associated with the presence of metals within the earthen backstop and the firing range area.

### **INVESTIGATION AND REMEDIATION ACTIVITIES:**

Due to the potential for a release associated with this unit, a subsurface investigation to determine the degree and extent of soil contamination was performed in November 1996. Prior to 1996, no investigation of this unit had reportedly been performed.

During August 1996, monitoring well SK-MW-24 was installed in the vicinity of the Firing Range by Loureiro Engineering Associates, Inc. (LEA). This monitoring well, as shown on Drawing 1, was installed as part of an investigation of groundwater contamination emanating from upgradient environmental units in the South Klondike Area. During the installation of this monitoring well, soil samples were collected for laboratory analysis. Supplemental groundwater investigations have also been conducted in the vicinity of the Firing Range since the August

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1996 installation of monitoring well SK-MW-24. In order to be as comprehensive as possible, presentation of this incidental data is discussed as part of this Unit-Specific Technical Memorandum.

Metals and volatile organic compounds (VOCs) have been detected in groundwater samples from monitoring well SK-MW-24. Specifically, barium and zinc were detected in groundwater samples collected from this monitoring well. Similarly, cis-1,2-dichloroethylene (CDCE), trans-1,2-dichloroethylene (TDCE), tetrachloroethylene (PCE), 1,1,1-trichloroethane (TCA), trichloroethylene (TCE), and vinyl chloride (VC) were also detected in well SK-MW-24. Of the constituents detected, CDCE, PCE, TCE, and VC had elevated concentrations. Polychlorinated biphenyls (PCBs) and total petroleum hydrocarbons (TPH) have not been detected in the groundwater samples that have been analyzed from this monitoring well. For a more detailed account of the groundwater sampling that included monitoring well SK-MW-24 refer to *Technical Memorandum 3, Groundwater Sampling and Quality*.

## **August 1996 Investigation (LEA):**

**Description:** On August 26, 1996, monitoring well SK-MW-24 was installed near the south edge of the Firing Range by LEA. Soil samples were collected in continuous two-foot intervals to a depth of sixteen feet. In order to be as comprehensive as possible, presentation of this incidental data is discussed as part of this Unit-Specific Technical Memorandum.

A total of eight soil samples were submitted to the LEA Analytical Laboratory and screened for the presence of target VOCs (benzene (BZ), ethylbenzene (EBZ), tetrachloroethylene (PCE), toluene (TL), 1,1,1-trichloroethane (TCA), trichloroethylene (TCE), and xylenes (XYL)). Based on visual, olfactory, or instrument evidence, and with consideration of the potential release mechanism, two soil samples were submitted to Averill Environmental Laboratory, Inc. (AEL) for analysis. The soil samples were analyzed for VOCs by EPA Method 8260, semivolatile organic compounds (SVOCs) by EPA Method 8270, PCBs by EPA Method 8080, and TPH by EPA Method 418.1. A summary of the samples collected and the analyses performed is included in Table 1.

**Investigation Results:** Based on the boring log, groundwater was encountered at approximately four to six feet below the ground surface during the advancement of the boring. Varved clay was encountered at a depth of sixteen feet. No visual or olfactory evidence of contamination was noted in the boring log.

Concentrations of constituents detected in the soil samples are presented in Table 2. A complete summary of soil analytical results with detection limits is presented in Table 3. Detected concentrations at each sampling location are shown on Drawing 1. VOCs, SVOCs, PCBs, and TPH were not detected in the soil samples submitted to AEL for analysis. VOCs were not detected in soil samples collected above the water table and analyzed by the LEA Analytical Laboratory. PCE and TCE were detected in soil samples at depths below the water table by the LEA Analytical Laboratory.

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**Data Evaluation and Conclusions:** The data were compared against the default numeric criteria included in the Connecticut Remediation Standard Regulation (RSR) and the site-wide background soil concentrations for the North Klondike for various inorganic constituents (Fuss & O'Neill, 1994). For a more detailed discussion of background concentrations of metals in soil refer to *Technical Memorandum 4, Background Soil Data*. Criteria are established in the RSR based on exposure pathways for various environmental media, including soil and groundwater. The evaluation of the soils data is based on a comparison to the residential direct exposure criteria (RDEC) and the industrial/commercial direct exposure criteria (IDEC) and the GB pollutant mobility criteria (PMC) included in the RSR, as well as the site-wide background concentrations.

The concentrations of the metals detected in the soil samples are typical of background concentrations. For metals detected in soil, no exceedances of the RDEC or the IDEC were noted. Similarly, for the VOCs detected, no exceedances of the RDEC, IDEC, or GBPMC were noted. The VOCs detected are likely associated with an upgradient source.

## **November 1996 Investigation (LEA):**

**Description:** On November 5, 1996, two test pits, SK-TP-01 and SK-TP-02, were advanced into the sides of the backstop with a backhoe. The test pits were installed into the backstop to provide information on spent ammunition that may have entered the backstop. The test pit locations are shown on Drawing 1. Soil samples were collected from the sides and the bottom of each pit. Test pit SK-TP-01 was advanced to nine feet, and test pit SK-TP-02 was advanced to fifteen feet.

Based on visual evidence and considering the potential release mechanism, two samples from each test pit were submitted to Averill Environmental Laboratory, Inc. (AEL). The samples were analyzed for metals. A summary of the samples collected and the analyses performed is included in Table 1.

On November 12, 1996, nine shallow soil borings, SK-SB-99 through SK-SB-106, were installed between the firing mound and the earthen backstop. The boring locations were selected to provide coverage of the area between the firing mound and the backstop. Soil samples were collected from each of the borings in continuous one-foot intervals to a depth of two feet. The shallow sampling interval from each boring was submitted to AEL for metals analyses. Based on a slightly elevated photoionization detector (PID) reading, a second soil sample from soil boring SK-SB-102 was also submitted to AEL for VOC analysis.

**Investigation Results:** No visual contamination was noted and no metal bullets or metallic fragments were observed. Concentrations of constituents detected in soil samples collected for this unit are presented in Table 2. A complete summary of soil analytical results with detection limits is presented in Table 3. Detected concentrations at each sampling location are shown on Drawing 1.

VOCs were not detected in the single soil sample analyzed for VOCs. One or more of the metals analyzed were detected in each of the soil borings. These metals include arsenic, barium, chromium, mercury, and zinc.

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**Data Evaluation and Conclusions:** The data were compared against the default numeric criteria included in the RSR and the site-specific background soil concentrations for various inorganic constituents for the North Klondike (Fuss & O'Neill, 1994). For the metals detected in soil, no exceedances of the RDEC or the IDEC were noted. The concentrations of the metals detected in the soil samples are typical of background concentrations and are not indicative of a release from this unit. As a result, this unit is believed to be adequately characterized and no further action is necessary.

Elevated concentrations of CDCE, PCE, TCE, and VC were noted in the groundwater samples collected from SK-MW-24. This groundwater contamination can be attributed to an upgradient source. For a more detailed account of the groundwater sampling that included monitoring well SK-MW-24 refer to *Technical Memorandum 3, Groundwater Sampling and Quality*.

## REFERENCES:

Petersen & Hoffman, Engineers. April 1964. *Topographical Survey for Proposed Industrial Site "E"*, prepared for United Aircraft Corporation.

Petersen & Hoffman, Engineers. March 1956. *Plan Showing Elevations for Klondike Test Area (South End)* prepared for United Aircraft Corporation.

Town of East Hartford. 1948 *Aerial Photograph of Retschler Airport and Surrounding Areas*, East Hartford, CT.

Keystone Aerial Surveys, Inc. 1965, *Aerial Photo of Retschler Airport and Surrounding Areas*, East Hartford, CT.

**TABLES**

**Table 1**  
**SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION**  
**P&W East Hartford: Firing Range Area**

**DRAFT**

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Sample Information						Analysis Information								
Location ID	Sample ID	Sample Date	From (ft)	To (ft)	Class	Portable GC	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Extraction	Miscellaneous
SK-GP-62	1016933	5/28/93	7	9	GW	x								
SK-GP-62	1016934	5/28/93	15	17	GW	X								
SK-MW-24	1017659	8/26/96	0	2	SB	x								
SK-MW-24	1017660	8/26/96	2	4	SB	x	x	x			x	X		x
SK-MW-24	1017661	8/26/96	4	6	SB	x								
SK-MW-24	1017662	8/26/96	6	8	SB	x								
SK-MW-24	1017663	8/26/96	8	10	SB	X								
SK-MW-24	1017664	8/26/96	10	12	SB	X								
SK-MW-24	1017665	8/26/96	12	14	SB	X	x	x			x	X		x
SK-MW-24	1017666	8/26/96	14	16	SB	X								
SK-MW-24	1018177	9/11/96	3.0	13.0	GW		X				x	X		x
SK-MW-24	1018178	9/11/96	3.0	13.0	GW		X				x	X		x
SK-MW-24	1634481	6/ 4/97	3.0	13.0	GW		X					X		
SK-MW-24	1647344	11/20/97	3.0	13.0	GW		X					x		
SK-SB-100	1021136	11/12/96	0	1	SB							X		
SK-SB-101	1021138	11/12/96	0	1	SB							X		
SK-SB-102	1021140	11/12/96	0	1	SB		x					X		
SK-SB-103	1021142	11/12/96	0	1	SB							X		
SK-SB-104	1021144	11/12/96	0	1	SB							X		
SK-SB-104	1021145	11/12/96	0	1	SB							X		
SK-SB-105	1021147	11/12/96	0	1	SB							X		
SK-SB-106	1021107	11/12/96	0	1	SB							X		
SK-SB-99	1021134	11/12/96	0	1	SB							X		
SK-TP-01E	1021173	11/ 5/96	9		SS							X		
SK-TP-01S	1021172	11/ 5/96	3		SS							X		
SK-TP-02E	1021178	11/ 5/96	15		SS							X		
SK-TP-02W	1021176	11/ 5/96	3		SS							X		

Notes: 1. Legend: X - Analysed; at least one analyte over the detection limit; x - Analysed, no analytes in group over the detection limit  
2. Printed on 05/14/98









**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Firing Range Area**

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	Location ID	SK-MW-24	SK-MW-24	SK-MW-24	SK-MW-24	SK-MW-24	SK-MW-24	SK-MW-24
Sample ID	1017659	1017660	1017660	1017660	1017661	1017662	1017663	1017664
Sample Date	08/26/1996	08/26/1996	08/26/1996	08/26/1996	08/26/1996	08/26/1996	08/26/1996	08/26/1996
Sample Time	13:40	13:45	13:45	13:50	13:55	14:00	14:05	14:05
Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	
Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	LEA	LEA
Lab. Number	96-4239-192	AEL96009663	96-4240-193	96-4241-194	96-4242-195	96-4243-196	96-4244-197	
Constituent	Units							
Date Metals Analyzed	-		09/05/1996					
Date Organics Analyzed	-	08/28/1996	09/06/1996	08/28/1996	08/28/1996	08/28/1996	08/28/1996	08/28/1996
Date PCBs Analyzed	-		09/16/1996					
Date Semi-volatile Organics Analyzed	-		09/27/1996					
Arsenic	mg/kg		<1.09					
Barium	mg/kg		13.6					
Cadmium	mg/kg		<3.28					
Chromium	mg/kg		6.56					
Lead	mg/kg		<21.9					
Mercury	mg/kg		<0.219					
Nickel	mg/kg		<10.9					
Selenium	mg/kg		<1.09					
Silver	mg/kg		<5.47					
Zinc	mg/kg		15.2					
PCB 1016	µg/kg		<210					
PCB 1221	µg/kg		<210					
PCB 1232	µg/kg		<210					
PCB 1242	µg/kg		<210					
PCB 1248	µg/kg		<210					
PCB 1254	µg/kg		<210					
PCB 1260	µg/kg		<210					
Total Petroleum Hydrocarbons	mg/kg		<37.0					
Acenaphthene	µg/kg		<370					
Acenaphthylene	µg/kg		<370					
Anthracene	µg/kg		<370					
Benzidine	µg/kg		<370					
Benzo[a]anthracene	µg/kg		<370					
Benzo[a]pyrene	µg/kg		<370					

Notes: 1. Printed on 05/13/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Firing Range Area**

**DRAFT**

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	Location ID	SK-MW-24						
	Sample ID	1017659	1017660	1017660	1017661	1017662	1017663	1017664
	Sample Date	08/26/1996	08/26/1996	08/26/1996	08/26/1996	08/26/1996	08/26/1996	08/26/1996
	Sample Time	13:40	13:45	13:45	13:50	13:55	14:00	14:05
	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'
	Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	LEA
	Lab. Number	96-4239-192	AEL96009663	96-4240-193	96-4241-194	96-4242-195	96-4243-196	96-4244-197
Constituent	Units							
Benzo[b]fluoranthene	µg/kg		<370					
Benzo[ghi]perylene	µg/kg		<370					
Benzo[k]fluoranthene	µg/kg		<370					
Bis(2-chloroethoxy)methane	µg/kg		<370					
Bis(2-chloroethyl) Ether	µg/kg		<370					
Bis(2-ethylhexyl)phthalate	µg/kg		<370					
Bromophenyl Phenyl Ether, 4-	µg/kg		<370					
Butyl Benzyl Phthalate	µg/kg		<370					
Chloronaphthalene, 2-	µg/kg		<370					
Chlorophenol, 2-	µg/kg		<370					
Chlorophenyl Phenyl Ether, 4-	µg/kg		<370					
Chrysene	µg/kg		<370					
Di-n-butyl Phthalate	µg/kg		<370					
Di-n-octyl Phthalate	µg/kg		<370					
Dibenzo[a,h]anthracene	µg/kg		<370					
Dichlorobenzidine, 3,3'-	µg/kg		<370					
Dichlorophenol, 2,4-	µg/kg		<370					
Diethyl Phthalate	µg/kg		<370					
Dimethyl Phthalate	µg/kg		<370					
Dimethylphenol, 2,4-	µg/kg		<370					
Dinitro-o-cresol, 4,6-	µg/kg		<370					
Dinitrophenol, 2,4-	µg/kg		<370					
Dinitrotoluene, 2,4-	µg/kg		<370					
Dinitrotoluene, 2,6-	µg/kg		<370					
Diphenylhydrazine, 1,2-	µg/kg		<370					
Fluoranthene	µg/kg		<370					
Fluorene	µg/kg		<370					
Hexachlorobenzene	µg/kg		<370					

Notes: 1. Printed on 05/13/98

**LEA**

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Firing Range Area**

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Page 3 of 20

	Location ID	SK-MW-24						
	Sample ID	1017659	1017660	1017660	1017661	1017662	1017663	1017664
	Sample Date	08/26/1996	08/26/1996	08/26/1996	08/26/1996	08/26/1996	08/26/1996	08/26/1996
	Sample Time	13:40	13:45	13:45	13:50	13:55	14:00	14:05
	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'
	Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	LEA
	Lab. Number	96-4239-192	AEL96009663	96-4240-193	96-4241-194	96-4242-195	96-4243-196	96-4244-197
Constituent	Units							
Hexachlorobutadiene	µg/kg		<370					
Hexachlorocyclopentadiene	µg/kg		<370					
Hexachloroethane	µg/kg		<370					
Indeno(1,2,3-cd)pyrene	µg/kg		<370					
Isophorone	µg/kg		<370					
N-nitroso-n-propylamine	µg/kg		<370					
N-nitrosodimethylamine	µg/kg		<370					
N-nitrosodiphenylamine	µg/kg		<370					
Naphthalene	µg/kg		<370					
Nitrobenzene	µg/kg		<370					
Nitrophenol,2-	µg/kg		<370					
Nitrophenol,4-	µg/kg		<370					
Pentachlorophenol	µg/kg		<370					
Phenanthrene	µg/kg		<370					
Phenol	µg/kg		<370					
Propane),2,2'-oxybis(2-chloro-	µg/kg		<370					
Pyrene	µg/kg		<370					
Trichlorobenzene,1,2,4-	µg/kg		<370					
Trichlorophenol,2,4,6-	µg/kg		<370					
Acetone	µg/kg		<29					
Acrolein	µg/kg		<14					
Acrylonitrile	µg/kg		<14					
Benzene	µg/kg		<5.5					
Benzene (screening)	µg/kg	<8		<8	<7	<8	<8	<8
Bromobenzene	µg/kg		<5.5					
Bromoform	µg/kg		<5.5					
Carbon Disulfide	µg/kg		<5.5					
Carbon Tetrachloride	µg/kg		<5.5					

Notes: 1. Printed on 05/13/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P & W East Hartford: Firing Range Area**

**DRAFT**

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	Location ID	SK-MW-24						
	Sample ID	1017659	1017660	1017660	1017661	1017662	1017663	1017664
	Sample Date	08/26/1996	08/26/1996	08/26/1996	08/26/1996	08/26/1996	08/26/1996	08/26/1996
	Sample Time	13:40	13:45	13:45	13:50	13:55	14:00	14:05
	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	10' - 12'
	Laboratory	LEA	AEL	LEA	LEA	LEA	LEA	LEA
	Lab. Number	96-4239-192	AEL96009663	96-4240-193	96-4241-194	96-4242-195	96-4243-196	96-4244-197
Constituent	Units							
Chlorobenzene	µg/kg		<5.5					
Chlorodibromomethane	µg/kg		<5.5					
Chloroethane	µg/kg		<5.5					
Chloroethyl Vinyl Ether,2-	µg/kg		<5.5					
Chloroform	µg/kg		<5.5					
Chlorotoluene,o-	µg/kg		<5.5					
Chlorotoluene,p-	µg/kg		<5.5					
Dibromomethane	µg/kg		<5.5					
Dichlorobenzene,1,2-	µg/kg		<5.5					
Dichlorobenzene,1,3-	µg/kg		<5.5					
Dichlorobenzene,1,4-	µg/kg		<5.5					
Dichlorobromomethane	µg/kg		<5.5					
Dichlorodifluoromethane	µg/kg		<5.5					
Dichloroethane,1,1-	µg/kg		<5.5					
Dichloroethane,1,2-	µg/kg		<5.5					
Dichloroethylene,1,1-	µg/kg		<5.5					
Dichloroethylene,1,2-cis-	µg/kg		<5.5					
Dichloroethylene,1,2-trans-	µg/kg		<5.5					
Dichloropropane,1,2-	µg/kg		<5.5					
Dichloropropylene,1,3-cis-	µg/kg		<5.5					
Dichloropropylene,1,3-trans-	µg/kg		<5.5					
Ethylbenzene	µg/kg		<5.5					
Ethylbenzene (screening)	µg/kg	<18		<18	<16	<18	<18	<18
Hexanone,2-	µg/kg		<14					
Methyl Bromide	µg/kg		<5.5					
Methyl Chloride	µg/kg		<5.5					
Methyl Ethyl Ketone	µg/kg		<14					
Methyl-2-pentanone,4-	µg/kg		<14					

Notes: 1. Printed on 05/13/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Firing Range Area**

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	Location ID	SK-MW-24	SK-MW-24	SK-MW-24	SK-SB-100	SK-SB-101	SK-SB-102	SK-SB-103
Sample ID		1017665	1017665	1017666	1021136	1021138	1021140	1021142
Sample Date		08/26/1996	08/26/1996	08/26/1996	11/12/1996	11/12/1996	11/12/1996	11/12/1996
Sample Time		14:10	14:10	14:25	13:20	13:30	13:45	14:00
Sample Depth		12' - 14'	12' - 14'	14' - 16'	0' - 1'	0' - 1'	0' - 1'	0' - 1'
Laboratory		AEL	LEA	LEA	AEL	AEL	AEL	AEL
Lab. Number		AEL96009664	96-4246-199	96-4247-200	AEL96012897	AEL96012898	AEL96012899	AEL96012900
Constituent	Units							
Date Metals Analyzed	-	09/05/1996			11/19/1996	11/19/1996	11/25/1996	11/19/1996
Date Organics Analyzed	-	09/05/1996	08/28/1996	08/28/1996			11/21/1996	
Date PCBs Analyzed	-	09/16/1996						
Date Semi-volatile Organics Analyzed	-	09/27/1996						
Arsenic	mg/kg	<1.2			0.62	<0.4	0.942	0.77
Barium	mg/kg	23.6			19.4	17.4	17.7	12.1
Cadmium	mg/kg	<3.61			<3.68	<3.28	<3.08	<3.41
Chromium	mg/kg	<6.02			7.74	6.01	8.2	6.71
Lead	mg/kg	<24.1			<24.6	<21.9	<20.5	<22.7
Mercury	mg/kg	<0.241			<0.10	<0.09	<0.0205	<0.09
Nickel	mg/kg	<12			<12.3	<10.9	<10.3	<11.4
Selenium	mg/kg	<1.2			<1.23	<1.09	<1.03	<1.14
Silver	mg/kg	<6.02			<6.14	<5.46	<5.13	<5.68
Zinc	mg/kg	15.2			53.9	24.4	19.3	25
PCB 1016	µg/kg	<240						
PCB 1221	µg/kg	<240						
PCB 1232	µg/kg	<240						
PCB 1242	µg/kg	<240						
PCB 1248	µg/kg	<240						
PCB 1254	µg/kg	<240						
PCB 1260	µg/kg	<240						
Total Petroleum Hydrocarbons	mg/kg	<42.1						
Acenaphthene	µg/kg	<410						
Acenaphthylene	µg/kg	<410						
Anthracene	µg/kg	<410						
Benzidine	µg/kg	<410						
Benzo[a]anthracene	µg/kg	<410						
Benzo[a]pyrene	µg/kg	<410						

Notes: 1. Printed on 05/13/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Firing Range Area**

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	Location ID	SK-MW-24	SK-MW-24	SK-MW-24	SK-SB-100	SK-SB-101	SK-SB-102	SK-SB-103
Sample ID	1017665	1017665	1017665	1017666	1021136	1021138	1021140	1021142
Sample Date	08/26/1996	08/26/1996	08/26/1996	08/26/1996	11/12/1996	11/12/1996	11/12/1996	11/12/1996
Sample Time	14:10	14:10	14:10	14:25	13:20	13:30	13:45	14:00
Sample Depth	12' - 14'	12' - 14'	12' - 14'	14' - 16'	0' - 1'	0' - 1'	0' - 1'	0' - 1'
Laboratory	AEL	LEA	LEA	LEA	AEL	AEL	AEL	AEL
Lab. Number	AEL96009664	96-4246-199	96-4247-200	96-4247-200	AEL96012897	AEL96012898	AEL96012899	AEL96012900
Constituent	Units							
Benzo[b]fluoranthene	µg/kg	<410						
Benzo[ghi]perylene	µg/kg	<410						
Benzo[k]fluoranthene	µg/kg	<410						
Bis(2-chloroethoxy)methane	µg/kg	<410						
Bis(2-chloroethyl) Ether	µg/kg	<410						
Bis(2-ethylhexyl)phthalate	µg/kg	<410						
Bromophenyl Phenyl Ether, 4-	µg/kg	<410						
Butyl Benzyl Phthalate	µg/kg	<410						
Chloronaphthalene, 2-	µg/kg	<410						
Chlorophenol, 2-	µg/kg	<410						
Chlorophenyl Phenyl Ether, 4-	µg/kg	<410						
Chrysene	µg/kg	<410						
Di-n-butyl Phthalate	µg/kg	<410						
Di-n-octyl Phthalate	µg/kg	<410						
Dibenzo[a,h]anthracene	µg/kg	<410						
Dichlorobenzidine, 3,3'-	µg/kg	<410						
Dichlorophenol, 2,4-	µg/kg	<410						
Diethyl Phthalate	µg/kg	<410						
Dimethyl Phthalate	µg/kg	<410						
Dimethylphenol, 2,4-	µg/kg	<410						
Dinitro-o-cresol, 4,6-	µg/kg	<410						
Dinitrophenol, 2,4-	µg/kg	<410						
Dinitrotoluene, 2,4-	µg/kg	<410						
Dinitrotoluene, 2,6-	µg/kg	<410						
Diphenylhydrazine, 1,2-	µg/kg	<410						
Fluoranthene	µg/kg	<410						
Fluorene	µg/kg	<410						
Hexachlorobenzene	µg/kg	<410						

Notes: 1. Printed on 05/13/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Firing Range Area**

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	Location ID	SK-MW-24	SK-MW-24	SK-MW-24	SK-SB-100	SK-SB-101	SK-SB-102	SK-SB-103
	Sample ID	1017665	1017665	1017666	1021136	1021138	1021140	1021142
	Sample Date	08/26/1996	08/26/1996	08/26/1996	11/12/1996	11/12/1996	11/12/1996	11/12/1996
	Sample Time	14:10	14:10	14:25	13:20	13:30	13:45	14:00
	Sample Depth	12' - 14'	12' - 14'	14' - 16'	0' - 1'	0' - 1'	0' - 1'	0' - 1'
	Laboratory	AEL	LEA	LEA	AEL	AEL	AEL	AEL
	Lab. Number	AEL96009664	96-4246-199	96-4247-200	AEL96012897	AEL96012898	AEL96012899	AEL96012900
Constituent	Units							
Hexachlorobutadiene	µg/kg	<410						
Hexachlorocyclopentadiene	µg/kg	<410						
Hexachloroethane	µg/kg	<410						
Indeno(1,2,3-cd)pyrene	µg/kg	<410						
Isophorone	µg/kg	<410						
N-nitroso-n-propylamine	µg/kg	<410						
N-nitrosodimethylamine	µg/kg	<410						
N-nitrosodiphenylamine	µg/kg	<410						
Naphthalene	µg/kg	<410						
Nitrobenzene	µg/kg	<410						
Nitrophenol,2-	µg/kg	<410						
Nitrophenol,4-	µg/kg	<410						
Pentachlorophenol	µg/kg	<410						
Phenanthrene	µg/kg	<410						
Phenol	µg/kg	<410						
Propane),2,2'-oxybis(2-chloro-	µg/kg	<410						
Pyrene	µg/kg	<410						
Trichlorobenzene,1,2,4-	µg/kg	<410						
Trichlorophenol,2,4,6-	µg/kg	<410						
Acetone	µg/kg	<31					<28	
Acrolein	µg/kg	<16					<14	
Acrylonitrile	µg/kg	<16					<14	
Benzene	µg/kg	<6.3					<5.6	
Benzene (screening)	µg/kg		<9	<7				
Bromobenzene	µg/kg	<6.3					<5.6	
Bromoform	µg/kg	<6.3					<5.6	
Carbon Disulfide	µg/kg	<6.3					<5.6	
Carbon Tetrachloride	µg/kg	<6.3					<5.6	

Notes: 1. Printed on 05/13/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Firing Range Area**

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	Location ID	SK-MW-24	SK-MW-24	SK-MW-24	SK-SB-100	SK-SB-101	SK-SB-102	SK-SB-103
Sample ID		1017665	1017665	1017666	1021136	1021138	1021140	1021142
Sample Date		08/26/1996	08/26/1996	08/26/1996	11/12/1996	11/12/1996	11/12/1996	11/12/1996
Sample Time		14:10	14:10	14:25	13:20	13:30	13:45	14:00
Sample Depth		12' - 14'	12' - 14'	14' - 16'	0' - 1'	0' - 1'	0' - 1'	0' - 1'
Laboratory		AEL	LEA	LEA	AEL	AEL	AEL	AEL
Lab. Number		AEL96009664	96-4246-199	96-4247-200	AEL96012897	AEL96012898	AEL96012899	AEL96012900
Constituent	Units							
Chlorobenzene	µg/kg	<6.3					<5.6	
Chlorodibromomethane	µg/kg	<6.3					<5.6	
Chloroethane	µg/kg	<6.3					<5.6	
Chloroethyl Vinyl Ether,2-	µg/kg	<6.3					<5.6	
Chloroform	µg/kg	<6.3					<5.6	
Chlorotoluene,o-	µg/kg	<6.3					<5.6	
Chlorotoluene,p-	µg/kg	<6.3					<5.6	
Dibromomethane	µg/kg	<6.3					<5.6	
Dichlorobenzene,1,2-	µg/kg	<6.3					<5.6	
Dichlorobenzene,1,3-	µg/kg	<6.3					<5.6	
Dichlorobenzene,1,4-	µg/kg	<6.3					<5.6	
Dichlorobromomethane	µg/kg	<6.3					<5.6	
Dichlorodifluoromethane	µg/kg	<6.3					<5.6	
Dichloroethane,1,1-	µg/kg	<6.3					<5.6	
Dichloroethane,1,2-	µg/kg	<6.3					<5.6	
Dichloroethylene,1,1-	µg/kg	<6.3					<5.6	
Dichloroethylene,1,2-cis-	µg/kg	<6.3					<5.6	
Dichloroethylene,1,2-trans-	µg/kg	<6.3					<5.6	
Dichloropropane,1,2-	µg/kg	<6.3					<5.6	
Dichloropropylene,1,3-cis-	µg/kg	<6.3					<5.6	
Dichloropropylene,1,3-trans-	µg/kg	<6.3					<5.6	
Ethylbenzene	µg/kg	<6.3					<5.6	
Ethylbenzene (screening)	µg/kg		<19	<15				
Hexanone,2-	µg/kg	<16					<14	
Methyl Bromide	µg/kg	<6.3					<5.6	
Methyl Chloride	µg/kg	<6.3					<5.6	
Methyl Ethyl Ketone	µg/kg	<16					<14	
Methyl-2-pentanone,4-	µg/kg	<16					<14	

Notes: 1. Printed on 05/13/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Firing Range Area**

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	Location ID	SK-SB-104	SK-SB-104	SK-SB-105	SK-SB-106	SK-SB-99	SK-TP-01E	SK-TP-01S
	Sample ID	1021144	1021145	1021147	1021107	1021134	1021173	1021172
	Sample Date	11/12/1996	11/12/1996	11/12/1996	11/12/1996	11/12/1996	11/05/1996	11/05/1996
	Sample Time	14:10	14:20	14:30	14:50	13:00	11:00	10:53
	Sample Depth	0' - 1'	0' - 1'	0' - 1'	0' - 1'	0' - 1'	9'	3'
	Laboratory	AEL						
	Lab. Number	AEL96012901	AEL96012902	AEL96012903	AEL96012904	AEL96012896	AEL96012712	AEL96012711
Constituent	Units							
Date Metals Analyzed	-	11/19/1996	11/19/1996	11/19/1996	11/19/1996	11/19/1996	11/14/1996	11/14/1996
Date Organics Analyzed	-							
Date PCBs Analyzed	-							
Date Semi-volatile Organics Analyzed	-							
Arsenic	mg/kg	0.6	<0.43	<0.5	0.83	<0.5	1.91	2.66
Barium	mg/kg	15.4	13.8	29.6	34.4	30.7	21.2	27
Cadmium	mg/kg	<3.28	<3.23	<3.88	<3.94	<3.9	<3.55	<3.82
Chromium	mg/kg	8.63	7.21	<6.47	8.41	6.51	6.99	8.91
Lead	mg/kg	<21.8	<21.5	<25.9	<26.3	<26	<23.7	<25.5
Mercury	mg/kg	<0.09	<0.09	<0.104	0.142	0.187	<0.237	<0.255
Nickel	mg/kg	<10.9	<10.8	<12.9	<13.1	<13	<11.8	<12.7
Selenium	mg/kg	<1.09	<1.08	<1.29	<1.31	<1.3	<1.18	<1.27
Silver	mg/kg	<5.46	<5.38	<6.47	<6.57	<6.51	<5.92	<6.37
Zinc	mg/kg	35.6	51.4	17.3	30.4	18.9	12.8	15.7
PCB 1016	µg/kg							
PCB 1221	µg/kg							
PCB 1232	µg/kg							
PCB 1242	µg/kg							
PCB 1248	µg/kg							
PCB 1254	µg/kg							
PCB 1260	µg/kg							
Total Petroleum Hydrocarbons	mg/kg							
Acenaphthene	µg/kg							
Acenaphthylene	µg/kg							
Anthracene	µg/kg							
Benzidine	µg/kg							
Benzo[a]anthracene	µg/kg							
Benzo[a]pyrene	µg/kg							

Notes: 1. Printed on 05/13/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Firing Range Area**

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	Location ID	SK-SB-104	SK-SB-104	SK-SB-105	SK-SB-106	SK-SB-99	SK-TP-01E	SK-TP-01S
	Sample ID	1021144	1021145	1021147	1021107	1021134	1021173	1021172
	Sample Date	11/12/1996	11/12/1996	11/12/1996	11/12/1996	11/12/1996	11/05/1996	11/05/1996
	Sample Time	14:10	14:20	14:30	14:50	13:00	11:00	10:53
	Sample Depth	0' - 1'	0' - 1'	0' - 1'	0' - 1'	0' - 1'	9'	3'
	Laboratory	AEL						
	Lab. Number	AEL96012901	AEL96012902	AEL96012903	AEL96012904	AEL96012896	AEL96012712	AEL96012711
Constituent	Units							
Benzo[b]fluoranthene	µg/kg							
Benzo[ghi]perylene	µg/kg							
Benzo[k]fluoranthene	µg/kg							
Bis(2-chloroethoxy)methane	µg/kg							
Bis(2-chloroethyl) Ether	µg/kg							
Bis(2-ethylhexyl)phthalate	µg/kg							
Bromophenyl Phenyl Ether, 4-	µg/kg							
Butyl Benzyl Phthalate	µg/kg							
Chloronaphthalene, 2-	µg/kg							
Chlorophenol, 2-	µg/kg							
Chlorophenyl Phenyl Ether, 4-	µg/kg							
Chrysene	µg/kg							
Di-n-butyl Phthalate	µg/kg							
Di-n-octyl Phthalate	µg/kg							
Dibenzo[a,h]anthracene	µg/kg							
Dichlorobenzidine, 3,3'-	µg/kg							
Dichlorophenol, 2,4-	µg/kg							
Diethyl Phthalate	µg/kg							
Dimethyl Phthalate	µg/kg							
Dimethylphenol, 2,4-	µg/kg							
Dinitro-o-cresol, 4,6-	µg/kg							
Dinitrophenol, 2,4-	µg/kg							
Dinitrotoluene, 2,4-	µg/kg							
Dinitrotoluene, 2,6-	µg/kg							
Diphenylhydrazine, 1,2-	µg/kg							
Fluoranthene	µg/kg							
Fluorene	µg/kg							
Hexachlorobenzene	µg/kg							

Notes: 1. Printed on 05/13/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Firing Range Area**

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	Location ID	SK-SB-104	SK-SB-104	SK-SB-105	SK-SB-106	SK-SB-99	SK-TP-01E	SK-TP-01S
Sample ID		1021144	1021145	1021147	1021107	1021134	1021173	1021172
Sample Date		11/12/1996	11/12/1996	11/12/1996	11/12/1996	11/12/1996	11/05/1996	11/05/1996
Sample Time		14:10	14:20	14:30	14:50	13:00	11:00	10:53
Sample Depth		0' - 1'	0' - 1'	0' - 1'	0' - 1'	0' - 1'	9'	3'
Laboratory		AEL						
Lab. Number		AEL96012901	AEL96012902	AEL96012903	AEL96012904	AEL96012896	AEL96012712	AEL96012711
Constituent	Units							
Hexachlorobutadiene	µg/kg							
Hexachlorocyclopentadiene	µg/kg							
Hexachloroethane	µg/kg							
Indeno(1,2,3-cd)pyrene	µg/kg							
Isophorone	µg/kg							
N-nitroso-n-propylamine	µg/kg							
N-nitrosodimethylamine	µg/kg							
N-nitrosodiphenylamine	µg/kg							
Naphthalene	µg/kg							
Nitrobenzene	µg/kg							
Nitrophenol,2-	µg/kg							
Nitrophenol,4-	µg/kg							
Pentachlorophenol	µg/kg							
Phenanthrene	µg/kg							
Phenol	µg/kg							
Propane),2,2'-oxybis(2-chloro-	µg/kg							
Pyrene	µg/kg							
Trichlorobenzene,1,2,4-	µg/kg							
Trichlorophenol,2,4,6-	µg/kg							
Acetone	µg/kg							
Acrolein	µg/kg							
Acrylonitrile	µg/kg							
Benzene	µg/kg							
Benzene (screening)	µg/kg							
Bromobenzene	µg/kg							
Bromoform	µg/kg							
Carbon Disulfide	µg/kg							
Carbon Tetrachloride	µg/kg							

Notes: 1. Printed on 05/13/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Firing Range Area**

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	Location ID	SK-SB-104	SK-SB-104	SK-SB-105	SK-SB-106	SK-SB-99	SK-TP-01E	SK-TP-01S
	Sample ID	1021144	1021145	1021147	1021107	1021134	1021173	1021172
	Sample Date	11/12/1996	11/12/1996	11/12/1996	11/12/1996	11/12/1996	11/05/1996	11/05/1996
	Sample Time	14:10	14:20	14:30	14:50	13:00	11:00	10:53
	Sample Depth	0' - 1'	0' - 1'	0' - 1'	0' - 1'	0' - 1'	9'	3'
	Laboratory	AEL						
	Lab. Number	AEL96012901	AEL96012902	AEL96012903	AEL96012904	AEL96012896	AEL96012712	AEL96012711
Constituent	Units							
Chlorobenzene	µg/kg							
Chlorodibromomethane	µg/kg							
Chloroethane	µg/kg							
Chloroethyl Vinyl Ether,2-	µg/kg							
Chloroform	µg/kg							
Chlorotoluene,o-	µg/kg							
Chlorotoluene,p-	µg/kg							
Dibromomethane	µg/kg							
Dichlorobenzene,1,2-	µg/kg							
Dichlorobenzene,1,3-	µg/kg							
Dichlorobenzene,1,4-	µg/kg							
Dichlorobromomethane	µg/kg							
Dichlorodifluoromethane	µg/kg							
Dichloroethane,1,1-	µg/kg							
Dichloroethane,1,2-	µg/kg							
Dichloroethylene,1,1-	µg/kg							
Dichloroethylene,1,2-cis-	µg/kg							
Dichloroethylene,1,2-trans-	µg/kg							
Dichloropropane,1,2-	µg/kg							
Dichloropropylene,1,3-cis-	µg/kg							
Dichloropropylene,1,3-trans-	µg/kg							
Ethylbenzene	µg/kg							
Ethylbenzene (screening)	µg/kg							
Hexanone,2-	µg/kg							
Methyl Bromide	µg/kg							
Methyl Chloride	µg/kg							
Methyl Ethyl Ketone	µg/kg							
Methyl-2-pentanone,4-	µg/kg							

Notes: 1. Printed on 05/13/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Firing Range Area**

**DRAFT**

	Location ID	SK-TP-02E	SK-TP-02W				
Sample ID	1021178	1021176					
Sample Date	11/05/1996	11/05/1996					
Sample Time	11:29	11:17					
Sample Depth	15'	3'					
Laboratory	AEL	AEL					
Lab. Number	AEL96012714	AEL96012713					
<b>Constituent</b>	<b>Units</b>						
Date Metals Analyzed	-	11/14/1996	11/14/1996				
Date Organics Analyzed	-						
Date PCBs Analyzed	-						
Date Semi-volatile Organics Analyzed	-						
Arsenic	mg/kg	2.57	2.22				
Barium	mg/kg	34.4	22.1				
Cadmium	mg/kg	<3.33	<3.52				
Chromium	mg/kg	9.88	8.79				
Lead	mg/kg	<22.2	<23.4				
Mercury	mg/kg	<0.222	<0.234				
Nickel	mg/kg	<11.1	<11.7				
Selenium	mg/kg	<1.11	<1.17				
Silver	mg/kg	<5.55	<5.86				
Zinc	mg/kg	13.7	17.3				
PCB 1016	µg/kg						
PCB 1221	µg/kg						
PCB 1232	µg/kg						
PCB 1242	µg/kg						
PCB 1248	µg/kg						
PCB 1254	µg/kg						
PCB 1260	µg/kg						
Total Petroleum Hydrocarbons	mg/kg						
Acenaphthene	µg/kg						
Acenaphthylene	µg/kg						
Anthracene	µg/kg						
Benzidine	µg/kg						
Benzo[a]anthracene	µg/kg						
Benzo[a]pyrene	µg/kg						

Notes: 1. Printed on 05/13/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Firing Range Area**

**DRAFT**

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	Location ID	SK-TP-02E	SK-TP-02W				
	Sample ID	1021178	1021176				
	Sample Date	11/05/1996	11/05/1996				
	Sample Time	11:29	11:17				
	Sample Depth	15'	3'				
	Laboratory	AEL	AEL				
	Lab. Number	AEL96012714	AEL96012713				
<b>Constituent</b>	<b>Units</b>						
Benzo[b]fluoranthene	µg/kg						
Benzo[ghi]perylene	µg/kg						
Benzo[k]fluoranthene	µg/kg						
Bis(2-chloroethoxy)methane	µg/kg						
Bis(2-chloroethyl) Ether	µg/kg						
Bis(2-ethylhexyl)phthalate	µg/kg						
Bromophenyl Phenyl Ether, 4-	µg/kg						
Butyl Benzyl Phthalate	µg/kg						
Chloronaphthalene, 2-	µg/kg						
Chlorophenol, 2-	µg/kg						
Chlorophenyl Phenyl Ether, 4-	µg/kg						
Chrysene	µg/kg						
Di-n-butyl Phthalate	µg/kg						
Di-n-octyl Phthalate	µg/kg						
Dibenzo[a,h]anthracene	µg/kg						
Dichlorobenzidine, 3,3'-	µg/kg						
Dichlorophenol, 2,4-	µg/kg						
Diethyl Phthalate	µg/kg						
Dimethyl Phthalate	µg/kg						
Dimethylphenol, 2,4-	µg/kg						
Dinitro-o-cresol, 4,6-	µg/kg						
Dinitrophenol, 2,4-	µg/kg						
Dinitrotoluene, 2,4-	µg/kg						
Dinitrotoluene, 2,6-	µg/kg						
Diphenylhydrazine, 1,2-	µg/kg						
Fluoranthene	µg/kg						
Fluorene	µg/kg						
Hexachlorobenzene	µg/kg						

Notes: 1. Printed on 05/13/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Firing Range Area**

*DRAFT*

	Location ID	SK-TP-02E	SK-TP-02W				
	Sample ID	1021178	1021176				
	Sample Date	11/05/1996	11/05/1996				
	Sample Time	11:29	11:17				
	Sample Depth	15'	3'				
	Laboratory	AEL	AEL				
	Lab. Number	AEL96012714	AEL96012713				
<b>Constituent</b>	<b>Units</b>						
Hexachlorobutadiene	µg/kg						
Hexachlorocyclopentadiene	µg/kg						
Hexachloroethane	µg/kg						
Indeno(1,2,3-cd)pyrene	µg/kg						
Isophorone	µg/kg						
N-nitroso-n-propylamine	µg/kg						
N-nitrosodimethylamine	µg/kg						
N-nitrosodiphenylamine	µg/kg						
Naphthalene	µg/kg						
Nitrobenzene	µg/kg						
Nitrophenol,2-	µg/kg						
Nitrophenol,4-	µg/kg						
Pentachlorophenol	µg/kg						
Phenanthrene	µg/kg						
Phenol	µg/kg						
Propane),2,2'-oxybis(2-chloro-	µg/kg						
Pyrene	µg/kg						
Trichlorobenzene,1,2,4-	µg/kg						
Trichlorophenol,2,4,6-	µg/kg						
Acetone	µg/kg						
Acrolein	µg/kg						
Acrylonitrile	µg/kg						
Benzene	µg/kg						
Benzene (screening)	µg/kg						
Bromobenzene	µg/kg						
Bromoform	µg/kg						
Carbon Disulfide	µg/kg						
Carbon Tetrachloride	µg/kg						

Notes: 1. Printed on 05/13/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Firing Range Area**

**DRAFT**

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	Location ID	SK-TP-02E	SK-TP-02W				
	Sample ID	1021178	1021176				
	Sample Date	11/05/1996	11/05/1996				
	Sample Time	11:29	11:17				
	Sample Depth	15'	3'				
	Laboratory	AEL	AEL				
	Lab. Number	AEL96012714	AEL96012713				
Constituent	Units						
Chlorobenzene	µg/kg						
Chlorodibromomethane	µg/kg						
Chloroethane	µg/kg						
Chloroethyl Vinyl Ether,2-	µg/kg						
Chloroform	µg/kg						
Chlorotoluene,o-	µg/kg						
Chlorotoluene,p-	µg/kg						
Dibromomethane	µg/kg						
Dichlorobenzene,1,2-	µg/kg						
Dichlorobenzene,1,3-	µg/kg						
Dichlorobenzene,1,4-	µg/kg						
Dichlorobromomethane	µg/kg						
Dichlorodifluoromethane	µg/kg						
Dichloroethane,1,1-	µg/kg						
Dichloroethane,1,2-	µg/kg						
Dichloroethylene,1,1-	µg/kg						
Dichloroethylene,1,2-cis-	µg/kg						
Dichloroethylene,1,2-trans-	µg/kg						
Dichloropropane,1,2-	µg/kg						
Dichloropropylene,1,3-cis-	µg/kg						
Dichloropropylene,1,3-trans-	µg/kg						
Ethylbenzene	µg/kg						
Ethylbenzene (screening)	µg/kg						
Hexanone,2-	µg/kg						
Methyl Bromide	µg/kg						
Methyl Chloride	µg/kg						
Methyl Ethyl Ketone	µg/kg						
Methyl-2-pentanone,4-	µg/kg						

Notes: 1. Printed on 05/13/98



**DRAWINGS**

**US EPA New England  
RCRA Document Management System  
Image Target Sheet**

**RDMS Document ID #** 2585

**Facility Name:** PRATT & WHITNEY - MAIN STREET

**Facility ID#:** CTD990672081

**Phase Classification:** R-1B

**Purpose of Target Sheet:**

**Oversized (in Site File)**       **Oversized (in Map Drawer)**

**Page(s) Missing (Please Specify Below)**

**Privileged**                       **Other (Provide Purpose Below)**

**Description of Oversized Material, if applicable:**

**DRAWING 1: SOIL INVESTIGATIONS, FORMER FIRING RANGE AREA, LOCATION & CONSTITUENTS DETECTED MAP**

**Map**       **Photograph**       **Other (Specify Below)**

**\* Please Contact the EPA New England RCRA Records Center to View This Document \***

# DRAFT

**UNIT-SPECIFIC TECHNICAL MEMORANDUM: FORMER ARMY  
BARRACKS SEPTIC SYSTEMS  
PRATT & WHITNEY, EAST HARTFORD, CT**

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**AREA:** North Airport

**SUB-AREA:** Rentschler Airport Former Army Barracks

**ENVIRONMENTAL UNIT:** Former Army Barracks Septic Systems

**Location:** This unit is located on the northern portion of the Rentschler Airport runway area as shown on Drawing 1.

**Description:** The Rentschler Airport Former Army Barracks extended from the northern end of the north-south runway westward to the present United Technology Research Center (UTRC). The Army Barracks consisted of approximately 33 buildings including barracks, mess halls, recreation halls, a dispensary, warehouses, a school, and a radio [Pratt & Whitney (P&W) Map PL-2826-D]. The typical size of the buildings was 20 feet by 100 feet. Fuel storage and vehicle maintenance areas or buildings were not indicated on the available drawing.

Sixteen septic systems of various size were installed to handle the sanitary wastewater from the various buildings. Based on the available information, eight of the septic systems were located on the northern end of Rentschler Airport and eight of the septic systems were located on UTRC property. The locations of the septic systems are shown on Drawing 1. The septic systems are shown to have consisted of a septic tank and a leaching field constructed of 4-inch vitrified clay pipe (VCP) (P&W Map PL-2826-D). The size of the septic tanks and the length of the VCP varied depending on the service requirements for a given building. The specifics on the construction details for the tanks and the leaching fields were not available.

**Dates of Operation:** The former barracks were operational from approximately 1942 to 1948.

**Processes:** Military personnel used the barracks as temporary quarters.

**Aerial Photographs:** Aerial photographs that included this unit were unavailable.

**Specific Contaminants of Concern:** No chemical usage information is available for the former Army Barracks. In order to be as comprehensive as possible in the investigation that was conducted, the following constituent groups were analyzed for: volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals (arsenic, barium, cadmium, chromium, mercury, nickel, selenium, silver, and zinc), and total petroleum hydrocarbons (TPH).

**Potential Release Mechanism:** Impacts to soils and groundwater from potential seepage through cracks or joints in the septic tanks or from the leaching fields associated with the former buildings.

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## INVESTIGATION AND REMEDIATION ACTIVITIES:

Due to the potential for a release associated with this unit, a subsurface investigation to determine the degree and extent of soil contamination was performed in August 1996. Prior to 1996, no investigation had reportedly been performed. Borings were not performed for the septic systems located on UTRC property. The UTRC property is not part of the Airport/Klondike Area and was not addressed as part of these investigation and remediation activities.

### August 1996 Investigation (LEA):

**Description:** On August 6, 1996, a geophysical investigation was conducted to determine the presence or absence of the sixteen septic systems associated with the Army Barracks. Ground Penetrating Radar (GPR) survey lines were run over fourteen of the septic system locations shown on the available drawing of the area (Pratt & Whitney Map PL-2826-D). The locations of the GPR survey lines are shown on Drawing 1. Three of the septic systems locations within the Airport/Klondike Area had GPR signatures indicating that septic systems may have been present.

On August 9, 1996, three soil borings, NA-SB-01 through NA-SB-03, were advanced in the vicinity of locations that had GPR signatures indicating the possible presence of septic systems or previously disturbed areas. The sampling locations are shown on Drawing 1. Soil samples were collected from each of the borings in continuous two-foot intervals to fourteen feet, and one-foot interval from fourteen to fifteen feet. The depth of fifteen feet was selected to ensure that sufficient data were collected for comparisons against the direct exposure criteria in the Connecticut Remediation Standard Regulation (RSR).

A total of twenty-five soil samples were submitted to the LEA Analytical Laboratory and screened for the presence of target VOCs [benzene (BZ), ethylbenzene (EBZ), tetrachloroethylene (PCE), toluene (TL), 1,1,1-trichloroethane (TCA), trichloroethylene (TCE), and xylenes (XYL)]. Based on visual, olfactory, or instrumentation evidence, and with consideration of the potential release mechanism, two samples from each of the soil borings were submitted to Averill Environmental Laboratory, Inc. (AEL). These samples were analyzed for VOCs, SVOCs, metals, and TPH. A summary of the samples collected and the analyses performed is included in Table 1.

**Investigation Results:** During the GPR survey, several characteristics were noted that could have been indications of septic system components. However, these indications were located on UTRC property and not P&W's property. The GPR survey of P&W's property indicated only pipe-like structures.

Based on the boring logs, groundwater was encountered at approximately five feet in the three soil borings. Varved clay was encountered at twelve feet in borings NA-SB-02 and NA-SB-03. In boring NA-SB-01, varved clay was not encountered.

Concentrations of constituents detected in soil samples collected for this unit are presented in Table 2. A complete summary of soil analytical results with detection limits is presented in Table 3. Detected concentrations at each sampling location are shown on Drawing 1. VOCs

# DRAFT

were not detected in the soil samples submitted to the LEA Analytical Laboratory. Similarly, VOCs, SVOCs, and TPH were not detected in the soil samples submitted to AEL.

One or more of the metals analyzed were detected in each of the soil samples submitted for analysis. These metals include arsenic, barium, cadmium, chromium, copper, nickel, and zinc.

**Data Evaluation and Conclusions:** The soil boring data were compared against the default numeric criteria included in the RSR and the site-wide background soil concentrations for various inorganic constituents (Fuss & O'Neill, 1994). For a more detailed discussion of background concentrations of metals in soil refer to *Technical Memorandum 4, Background Soil Data*. Criteria are established in the RSR based on exposure pathways for various environmental media, including soil and groundwater.

The concentrations of the metals detected in these samples are typical of site-wide background concentrations (Fuss & O'Neill, 1994), except for sample boring NA-SB-02 taken from 12 to 14 feet. However, the concentrations detected in this sample are typical of "Clay" background concentrations, and are not indicative of a release from this environmental unit. For the metals detected in soil, no exceedances of the default numeric residential direct exposure criteria (RDEC) or industrial/commercial direct exposure criteria (IDEC) were noted.

Based on the analytical results, there is no evidence that a release has occurred at this unit. It is believed that the area has been adequately characterized and no further action is warranted for the area near the Former Army Barracks.

## REFERENCES:

Fuss & O'Neill, Inc, 1994, *Soil Sampling Background Areas – North Klondike*, prepared for Pratt & Whitney.

Loureiro Engineering Associates. October 1995. *Rentschler Airport and Klondike Areas Data Gap Investigation and Work Plan*, United Technologies Corporation, Pratt & Whitney, 400 Main Street, East Hartford, CT.

Pratt & Whitney Map PL-2826-D, November 5, 1947, *O.T.U.-Housing and Utilities, U.S. Army Area at Rentschler Field*, File Number EH-4-1019.

**TABLES**

**Table 1**  
**SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION**  
**P&W East Hartford: Former Army Barracks Septic Systems**

**DRAFT**

Page 1 of 1

Sample Information						Analysis Information								
Location ID	Sample ID	Sample Date	From (ft)	To (ft)	Class	Portable GC	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Extraction	Miscellaneous
NA-SB-01	1016749	8/ 9/96	0	2	SB	x								
NA-SB-01	1016750	8/ 9/96	2	4	SB	x	x	x				X		x
NA-SB-01	1016751	8/ 9/96	4	6	SB	x								
NA-SB-01	1016752	8/ 9/96	6	8	SB	x								
NA-SB-01	1016753	8/ 9/96	8	10	SB	x	x	x				X		x
NA-SB-01	1016754	8/ 9/96	10	12	SB	x								
NA-SB-01	1016755	8/ 9/96	12	14	SB	x								
NA-SB-01	1016756	8/ 9/96	14	15	SB	x								
NA-SB-02	1016757	8/ 9/96	0	2	SB	x	x	x				X		x
NA-SB-02	1016758	8/ 9/96	2	4	SB	x								
NA-SB-02	1016759	8/ 9/96	4	6	SB	x								
NA-SB-02	1016760	8/ 9/96	6	8	SB	x								
NA-SB-02	1016761	8/ 9/96	6	8	SB	x								
NA-SB-02	1016762	8/ 9/96	8	10	SB	x								
NA-SB-02	1016763	8/ 9/96	10	12	SB	x								
NA-SB-02	1016764	8/ 9/96	12	14	SB	x	x	x				X		x
NA-SB-02	1016765	8/ 9/96	14	15	SB	x								
NA-SB-03	1016767	8/ 9/96	0	2	SB	x	x	x				X		x
NA-SB-03	1016768	8/ 9/96	2	4	SB	x								
NA-SB-03	1016769	8/ 9/96	4	6	SB	x								
NA-SB-03	1016770	8/ 9/96	6	8	SB	x	x	x				X		x
NA-SB-03	1016771	8/ 9/96	8	10	SB	x								
NA-SB-03	1016772	8/ 9/96	10	12	SB	x								
NA-SB-03	1016773	8/ 9/96	12	14	SB	x								
NA-SB-03	1016774	8/ 9/96	14	15	SB	x								

Notes: 1. Legend: X - Analysed; at least one analyte over the detection limit; x - Analysed, no analytes in group over the detection limit  
2. Printed on 05/07/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

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	Location ID	NA-SB-01						
	Sample ID	1016749	1016750	1016750	1016751	1016752	1016753	1016753
	Sample Date	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
	Sample Time	10:20	10:32	10:32	10:45	11:00	11:10	11:10
	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	8' - 10'
	Laboratory	LEA	AEL	LEA	LEA	LEA	AEL	LEA
	Lab. Number	96-3912-034	AEL96009074	96-3913-038	96-3914-039	96-3915-040	AEL96009075	96-3916-041
Constituent	Units							
Date Metals Analyzed	-		08/20/1996				08/20/1996	
Date Organics Analyzed	-	08/14/1996	08/20/1996	08/14/1996	08/14/1996	08/14/1996	08/20/1996	08/14/1996
Date Semi-volatile Organics Analyzed	-		08/29/1996				08/29/1996	
Arsenic	mg/kg		<1.18				<1.3	
Barium	mg/kg		16.6				9.49	
Cadmium	mg/kg		<3.53				<3.9	
Chromium	mg/kg		8.59				<6.5	
Copper	mg/kg		<5.88				<6.5	
Lead	mg/kg		<23.5				<26	
Mercury	mg/kg		<0.235				<0.26	
Nickel	mg/kg		<11.8				<13	
Selenium	mg/kg		<1.18				<1.3	
Silver	mg/kg		<5.88				<6.5	
Zinc	mg/kg		21.4				17.9	
Total Petroleum Hydrocarbons	mg/kg		<40.1				<42.3	
Acenaphthene	µg/kg		<410				<420	
Acenaphthylene	µg/kg		<410				<420	
Anthracene	µg/kg		<410				<420	
Benzidine	µg/kg		<410				<420	
Benzo[a]anthracene	µg/kg		<410				<420	
Benzo[a]pyrene	µg/kg		<410				<420	
Benzo[b]fluoranthene	µg/kg		<410 N1				<420	
Benzo[ghi]perylene	µg/kg		<410 N1				<420	
Benzo[k]fluoranthene	µg/kg		<410 N1				<420	
Bis(2-chloroethoxy)methane	µg/kg		<410				<420	
Bis(2-chloroethyl) Ether	µg/kg		<410				<420	
Bis(2-ethylhexyl)phthalate	µg/kg		<410				<420	
Bromophenyl Phenyl Ether, 4-	µg/kg		<410				<420	

Notes: 1. Printed on 05/07/98

**LEA**

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

**DRAFT**

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	Location ID	NA-SB-01						
	Sample ID	1016749	1016750	1016750	1016751	1016752	1016753	1016753
	Sample Date	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
	Sample Time	10:20	10:32	10:32	10:45	11:00	11:10	11:10
	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	8' - 10'
	Laboratory	LEA	AEL	LEA	LEA	LEA	AEL	LEA
	Lab. Number	96-3912-034	AEL96009074	96-3913-038	96-3914-039	96-3915-040	AEL96009075	96-3916-041
Constituent	Units							
Butyl Benzyl Phthalate	µg/kg		<410				<420	
Chloronaphthalene,2-	µg/kg		<410				<420	
Chlorophenol,2-	µg/kg		<410				<420	
Chlorophenyl Phenyl Ether,4-	µg/kg		<410				<420	
Chrysene	µg/kg		<410				<420	
Di-n-butyl Phthalate	µg/kg		<810				<420	
Di-n-octyl Phthalate	µg/kg		<410				<420	
Dibenzo[a,h]anthracene	µg/kg		<410				<420	
Dichlorobenzidine,3,3'-	µg/kg		<410				<420	
Dichlorophenol,2,4-	µg/kg		<410				<420	
Diethyl Phthalate	µg/kg		<410				<420	
Dimethyl Phthalate	µg/kg		<410				<420	
Dimethylphenol,2,4-	µg/kg		<410				<420	
Dinitro-o-cresol,4,6-	µg/kg		<410				<420	
Dinitrophenol,2,4-	µg/kg		<410				<420	
Dinitrotoluene,2,4-	µg/kg		<410				<420	
Dinitrotoluene,2,6-	µg/kg		<410				<420	
Diphenylhydrazine,1,2-	µg/kg		<410				<420	
Fluoranthene	µg/kg		<410				<420	
Fluorene	µg/kg		<410				<420	
Hexachlorobenzene	µg/kg		<410				<420	
Hexachlorobutadiene	µg/kg		<410				<420	
Hexachlorocyclopentadiene	µg/kg		<410				<420	
Hexachloroethane	µg/kg		<410				<420	
Indeno(1,2,3-cd)pyrene	µg/kg		<410 N1				<420	
Isophorone	µg/kg		<410				<420	
N-nitroso-n-propylamine	µg/kg		<410				<420	
N-nitrosodimethylamine	µg/kg		<410				<420	

Notes: 1. Printed on 05/07/98

**LEA**

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

**DRAFT**

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	Location ID	NA-SB-01						
	Sample ID	1016749	1016750	1016750	1016751	1016752	1016753	1016753
	Sample Date	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
	Sample Time	10:20	10:32	10:32	10:45	11:00	11:10	11:10
	Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	8' - 10'
	Laboratory	LEA	AEL	LEA	LEA	LEA	AEL	LEA
	Lab. Number	96-3912-034	AEL96009074	96-3913-038	96-3914-039	96-3915-040	AEL96009075	96-3916-041
Constituent	Units							
N-nitrosodiphenylamine	µg/kg		<410				<420	
Naphthalene	µg/kg		<410				<420	
Nitrobenzene	µg/kg		<410				<420	
Nitrophenol,2-	µg/kg		<410				<420	
Nitrophenol,4-	µg/kg		<410				<420	
Pentachlorophenol	µg/kg		<410				<420	
Phenanthrene	µg/kg		<410				<420	
Phenol	µg/kg		<410				<420	
Propane),2,2'-oxybis(2-chloro-	µg/kg		<410				<420	
Pyrene	µg/kg		<410				<420	
Trichlorobenzene, 1,2,4-	µg/kg		<410				<420	
Trichlorophenol,2,4,6-	µg/kg		<410				<420	
Acetone	µg/kg		<52				<37	
Acrolein	µg/kg		<26				<12	
Acrylonitrile	µg/kg		<26				<12	
Benzene	µg/kg		<10				<5.0	
Benzene (screening)	µg/kg	<16		<15	<14	<14		<16
Bromobenzene	µg/kg		<10				<5.0	
Bromoform	µg/kg		<10				<5.0	
Carbon Disulfide	µg/kg		<10				<5.0	
Carbon Tetrachloride	µg/kg		<10				<5.0	
Chlorobenzene	µg/kg		<10				<5.0	
Chlorodibromomethane	µg/kg		<10				<5.0	
Chloroethane	µg/kg		<10				<5.0	
Chloroethyl Vinyl Ether,2-	µg/kg		<10				<5.0	
Chloroform	µg/kg		<10				<5.0	
Chlorotoluene,o-	µg/kg		<10				<5.0	
Chlorotoluene,p-	µg/kg		<10				<5.0	

Notes: 1. Printed on 05/07/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

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Location ID	NA-SB-01							
Sample ID	1016749	1016750	1016750	1016751	1016752	1016753	1016753	1016753
Sample Date	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
Sample Time	10:20	10:32	10:32	10:45	11:00	11:10	11:10	11:10
Sample Depth	0' - 2'	2' - 4'	2' - 4'	4' - 6'	6' - 8'	8' - 10'	8' - 10'	8' - 10'
Laboratory	LEA	AEL	LEA	LEA	LEA	AEL	AEL	LEA
Lab. Number	96-3912-034	AEL96009074	96-3913-038	96-3914-039	96-3915-040	AEL96009075	AEL96009075	96-3916-041
Constituent	Units							
Dibromomethane	µg/kg		<10				<5.0	
Dichlorobenzene, 1,2-	µg/kg		<10				<5.0	
Dichlorobenzene, 1,3-	µg/kg		<10				<5.0	
Dichlorobenzene, 1,4-	µg/kg		<10				<5.0	
Dichlorobromomethane	µg/kg		<10				<5.0	
Dichlorodifluoromethane	µg/kg		<10				<5.0	
Dichloroethane, 1,1-	µg/kg		<10				<5.0	
Dichloroethane, 1,2-	µg/kg		<10				<5.0	
Dichloroethylene, 1,1-	µg/kg		<10				<5.0	
Dichloroethylene, 1,2-cis-	µg/kg		<10				<5.0	
Dichloroethylene, 1,2-trans-	µg/kg		<10				<5.0	
Dichloropropane, 1,2-	µg/kg		<10				<5.0	
Dichloropropylene, 1,3-cis-	µg/kg		<10				<5.0	
Dichloropropylene, 1,3-trans-	µg/kg		<10				<5.0	
Ethylbenzene	µg/kg		<10				<5.0	
Ethylbenzene (screening)	µg/kg	<34		<33	<31	<31		<34
Hexanone, 2-	µg/kg		<26				<12	
Methyl Bromide	µg/kg		<10				<5.0	
Methyl Chloride	µg/kg		<10				<5.0	
Methyl Ethyl Ketone	µg/kg		<26				<12	
Methyl-2-pentanone, 4-	µg/kg		<26				<12	
Methyl-tert-butyl Ether	µg/kg		<10				<5.0	
Methylene Chloride	µg/kg		<10				<6.2	
Styrene	µg/kg		<10				<5.0	
Tetrachloroethane, 1,1,1,2-	µg/kg		<10				<5.0	
Tetrachloroethane, 1,1,2,2-	µg/kg		<10				<5.0	
Tetrachloroethylene	µg/kg		<10				<5.0	
Tetrachloroethylene (screening)	µg/kg	<42		<41	<38	<38		<43

Notes: 1. Printed on 03/07/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

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	Location ID	NA-SB-01	NA-SB-01	NA-SB-01	NA-SB-02	NA-SB-02	NA-SB-02	NA-SB-02
	Sample ID	1016754	1016755	1016756	1016757	1016757	1016758	1016759
	Sample Date	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
	Sample Time	11:20	11:30	11:41	12:18	12:18	12:25	12:30
	Sample Depth	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	LEA
	Lab. Number	96-3917-042	96-3918-043	96-3919-044	AEL96009076	96-3920-045	96-3923-050	96-3924-051
Constituent	Units							
Date Metals Analyzed	-				08/20/1996			
Date Organics Analyzed	-	08/14/1996	08/14/1996	08/14/1996	08/20/1996	08/14/1996	08/15/1996	08/15/1996
Date Semi-volatile Organics Analyzed	-				08/29/1996			
Arsenic	mg/kg				2.87			
Barium	mg/kg				11.9			
Cadmium	mg/kg				<3.08			
Chromium	mg/kg				11.6			
Copper	mg/kg				10.4			
Lead	mg/kg				<20.5			
Mercury	mg/kg				<0.205			
Nickel	mg/kg				<10.3			
Selenium	mg/kg				<1.03			
Silver	mg/kg				<5.13			
Zinc	mg/kg				22.4			
Total Petroleum Hydrocarbons	mg/kg				<34.5			
Acenaphthene	µg/kg				<350			
Acenaphthylene	µg/kg				<350			
Anthracene	µg/kg				<350			
Benzidine	µg/kg				<350			
Benzo[a]anthracene	µg/kg				<350 N1			
Benzo[a]pyrene	µg/kg				<350 N1			
Benzo[b]fluoranthene	µg/kg				<350 N1			
Benzo[ghi]perylene	µg/kg				<350 N1			
Benzo[k]fluoranthene	µg/kg				<350 N1			
Bis(2-chloroethoxy)methane	µg/kg				<350			
Bis(2-chloroethyl) Ether	µg/kg				<350			
Bis(2-ethylhexyl)phthalate	µg/kg				<350			
Bromophenyl Phenyl Ether, 4-	µg/kg				<350			

Notes: 1. Printed on 05/07/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

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	Location ID	NA-SB-01	NA-SB-01	NA-SB-01	NA-SB-02	NA-SB-02	NA-SB-02	NA-SB-02
	Sample ID	1016754	1016755	1016756	1016757	1016757	1016758	1016759
	Sample Date	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
	Sample Time	11:20	11:30	11:41	12:18	12:18	12:25	12:30
	Sample Depth	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	LEA
	Lab. Number	96-3917-042	96-3918-043	96-3919-044	AEL96009076	96-3920-045	96-3923-050	96-3924-051
Constituent	Units							
Butyl Benzyl Phthalate	µg/kg				<350			
Chloronaphthalene,2-	µg/kg				<350			
Chlorophenol,2-	µg/kg				<350			
Chlorophenyl Phenyl Ether,4-	µg/kg				<350			
Chrysene	µg/kg				<350 N1			
Di-n-butyl Phthalate	µg/kg				<350			
Di-n-octyl Phthalate	µg/kg				<350			
Dibenzo[a,h]anthracene	µg/kg				<350			
Dichlorobenzidine,3,3'-	µg/kg				<350			
Dichlorophenol,2,4-	µg/kg				<350			
Diethyl Phthalate	µg/kg				<350			
Dimethyl Phthalate	µg/kg				<350			
Dimethylphenol,2,4-	µg/kg				<350			
Dinitro-o-cresol,4,6-	µg/kg				<350			
Dinitrophenol,2,4-	µg/kg				<350			
Dinitrotoluene,2,4-	µg/kg				<350			
Dinitrotoluene,2,6-	µg/kg				<350			
Diphenylhydrazine,1,2-	µg/kg				<350			
Fluoranthene	µg/kg				<350 N1			
Fluorene	µg/kg				<350			
Hexachlorobenzene	µg/kg				<350			
Hexachlorobutadiene	µg/kg				<350			
Hexachlorocyclopentadiene	µg/kg				<350			
Hexachloroethane	µg/kg				<350			
Indeno(1,2,3-cd)pyrene	µg/kg				<350 N1			
Isophorone	µg/kg				<350			
N-nitroso-n-propylamine	µg/kg				<350			
N-nitrosodimethylamine	µg/kg				<350			

Notes: 1. Printed on 05/07/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

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	Location ID	NA-SB-01	NA-SB-01	NA-SB-01	NA-SB-02	NA-SB-02	NA-SB-02	NA-SB-02
Sample ID	1016754	1016754	1016755	1016756	1016757	1016757	1016758	1016759
Sample Date	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
Sample Time	11:20	11:30	11:41	12:18	12:18	12:18	12:25	12:30
Sample Depth	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'	4' - 6'	
Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	LEA	LEA
Lab. Number	96-3917-042	96-3918-043	96-3919-044	AEL96009076	96-3920-045	96-3923-050	96-3924-051	
Constituent	Units							
N-nitrosodiphenylamine	µg/kg				<350			
Naphthalene	µg/kg				<350			
Nitrobenzene	µg/kg				<350			
Nitrophenol,2-	µg/kg				<350			
Nitrophenol,4-	µg/kg				<350			
Pentachlorophenol	µg/kg				<350			
Phenanthrene	µg/kg				<350 N1			
Phenol	µg/kg				<350			
Propane),2,2'-oxybis(2-chloro-	µg/kg				<350			
Pyrene	µg/kg				<350 N1			
Trichlorobenzene,1,2,4-	µg/kg				<350			
Trichlorophenol,2,4,6-	µg/kg				<350			
Acetone	µg/kg				<20			
Acrolein	µg/kg				<10			
Acrylonitrile	µg/kg				<10			
Benzene	µg/kg				<3.9			
Benzene (screening)	µg/kg	<13	<15	<15		<16	<8	<7
Bromobenzene	µg/kg				<3.9			
Bromoform	µg/kg				<3.9			
Carbon Disulfide	µg/kg				<3.9			
Carbon Tetrachloride	µg/kg				<3.9			
Chlorobenzene	µg/kg				<3.9			
Chlorodibromomethane	µg/kg				<3.9			
Chloroethane	µg/kg				<3.9			
Chloroethyl Vinyl Ether,2-	µg/kg				<3.9			
Chloroform	µg/kg				<3.9			
Chlorotoluene,o-	µg/kg				<3.9			
Chlorotoluene,p-	µg/kg				<3.9			

Notes: 1. Printed on 05/07/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

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	Location ID	NA-SB-01	NA-SB-01	NA-SB-01	NA-SB-02	NA-SB-02	NA-SB-02	NA-SB-02
	Sample ID	1016754	1016755	1016756	1016757	1016757	1016758	1016759
	Sample Date	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
	Sample Time	11:20	11:30	11:41	12:18	12:18	12:25	12:30
	Sample Depth	10' - 12'	12' - 14'	14' - 15'	0' - 2'	0' - 2'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	LEA
	Lab. Number	96-3917-042	96-3918-043	96-3919-044	AEL96009076	96-3920-045	96-3923-050	96-3924-051
<b>Constituent</b>	<b>Units</b>							
Dibromomethane	µg/kg				<3.9			
Dichlorobenzene,1,2-	µg/kg				<3.9			
Dichlorobenzene,1,3-	µg/kg				<3.9			
Dichlorobenzene,1,4-	µg/kg				<3.9			
Dichlorobromomethane	µg/kg				<3.9			
Dichlorodifluoromethane	µg/kg				<3.9			
Dichloroethane,1,1-	µg/kg				<3.9			
Dichloroethane,1,2-	µg/kg				<3.9			
Dichloroethylene,1,1-	µg/kg				<3.9			
Dichloroethylene,1,2-cis-	µg/kg				<3.9			
Dichloroethylene,1,2-trans-	µg/kg				<3.9			
Dichloropropane,1,2-	µg/kg				<3.9			
Dichloropropylene,1,3-cis-	µg/kg				<3.9			
Dichloropropylene,1,3-trans-	µg/kg				<3.9			
Ethylbenzene	µg/kg				<3.9			
Ethylbenzene (screening)	µg/kg	<28	<33	<33		<34	<16	<14
Hexanone,2-	µg/kg				<9.8			
Methyl Bromide	µg/kg				<3.9			
Methyl Chloride	µg/kg				<3.9			
Methyl Ethyl Ketone	µg/kg				<9.8			
Methyl-2-pentanone,4-	µg/kg				<10			
Methyl-tert-butyl Ether	µg/kg				<3.9			
Methylene Chloride	µg/kg				<5.9			
Styrene	µg/kg				<3.9			
Tetrachloroethane,1,1,1,2-	µg/kg				<3.9			
Tetrachloroethane,1,1,2,2-	µg/kg				<3.9			
Tetrachloroethylene	µg/kg				<3.9			
Tetrachloroethylene (screening)	µg/kg	<35	<41	<41		<42	<20	<18

Notes: 1. Printed on 05/07/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

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	Location ID	NA-SB-02						
Sample ID		1016760	1016761	1016762	1016763	1016764	1016764	1016765
Sample Date		08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
Sample Time		12:40	12:45	13:45	13:52	14:02	14:02	14:11
Sample Depth		6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 15'
Laboratory		LEA	LEA	LEA	LEA	AEL	LEA	LEA
Lab. Number		96-3925-052	96-3926-053	96-3927-054	96-3928-055	AEL96009141	96-3929-056	96-3930-057
Constituent	Units							
Date Metals Analyzed	-					08/20/1996		
Date Organics Analyzed	-	08/15/1996	08/15/1996	08/15/1996	08/15/1996	08/22/1996	08/15/1996	08/15/1996
Date Semi-volatile Organics Analyzed	-					08/29/1996		
Arsenic	mg/kg					3.53		
Barium	mg/kg					153		
Cadmium	mg/kg					4.43		
Chromium	mg/kg					29.5		
Copper	mg/kg					24.3		
Lead	mg/kg					<28.6		
Mercury	mg/kg					<0.286		
Nickel	mg/kg					26.2		
Selenium	mg/kg					<1.43		
Silver	mg/kg					<7.15		
Zinc	mg/kg					87.5		
Total Petroleum Hydrocarbons	mg/kg					<63.6		
Acenaphthene	µg/kg					<460		
Acenaphthylene	µg/kg					<460		
Anthracene	µg/kg					<460		
Benzidine	µg/kg					<460		
Benzo[a]anthracene	µg/kg					<460		
Benzo[a]pyrene	µg/kg					<460		
Benzo[b]fluoranthene	µg/kg					<460		
Benzo[ghi]perylene	µg/kg					<460		
Benzo[k]fluoranthene	µg/kg					<460		
Bis(2-chloroethoxy)methane	µg/kg					<460		
Bis(2-chloroethyl) Ether	µg/kg					<460		
Bis(2-ethylhexyl)phthalate	µg/kg					<460		
Bromophenyl Phenyl Ether,4-	µg/kg					<460		

Notes: 1. Printed on 05/07/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

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Location ID	NA-SB-02	NA-SB-02						
Sample ID	1016760	1016761	1016762	1016763	1016764	1016764	1016765	
Sample Date	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
Sample Time	12:40	12:45	13:45	13:52	14:02	14:02	14:11	
Sample Depth	6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 15'	
Laboratory	LEA	LEA	LEA	LEA	AEL	LEA	LEA	
Lab. Number	96-3925-052	96-3926-053	96-3927-054	96-3928-055	AEL96009141	96-3929-056	96-3930-057	
Constituent	Units							
Butyl Benzyl Phthalate	µg/kg					<460		
Chloronaphthalene,2-	µg/kg					<460		
Chlorophenol,2-	µg/kg					<460		
Chlorophenyl Phenyl Ether,4-	µg/kg					<460		
Chrysene	µg/kg					<460		
Di-n-butyl Phthalate	µg/kg					<930		
Di-n-octyl Phthalate	µg/kg					<460		
Dibenzo[a,h]anthracene	µg/kg					<460		
Dichlorobenzidine,3,3'-	µg/kg					<460		
Dichlorophenol,2,4-	µg/kg					<460		
Diethyl Phthalate	µg/kg					<460		
Dimethyl Phthalate	µg/kg					<460		
Dimethylphenol,2,4-	µg/kg					<460		
Dinitro-o-cresol,4,6-	µg/kg					<460		
Dinitrophenol,2,4-	µg/kg					<460		
Dinitrotoluene,2,4-	µg/kg					<460		
Dinitrotoluene,2,6-	µg/kg					<460		
Diphenylhydrazine,1,2-	µg/kg					<460		
Fluoranthene	µg/kg					<460		
Fluorene	µg/kg					<460		
Hexachlorobenzene	µg/kg					<460		
Hexachlorobutadiene	µg/kg					<460		
Hexachlorocyclopentadiene	µg/kg					<460		
Hexachloroethane	µg/kg					<460		
Indeno(1,2,3-cd)pyrene	µg/kg					<460		
Isophorone	µg/kg					<460		
N-nitroso-n-propylamine	µg/kg					<460		
N-nitrosodimethylamine	µg/kg					<460		

Notes: 1. Printed on 05/07/98

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**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

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	Location ID	NA-SB-02						
	Sample ID	1016760	1016761	1016762	1016763	1016764	1016764	1016765
	Sample Date	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
	Sample Time	12:40	12:45	13:45	13:52	14:02	14:02	14:11
	Sample Depth	6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 15'
	Laboratory	LEA	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	96-3925-052	96-3926-053	96-3927-054	96-3928-055	AEL96009141	96-3929-056	96-3930-057
Constituent	Units							
N-nitrosodiphenylamine	µg/kg					<460		
Naphthalene	µg/kg					<460		
Nitrobenzene	µg/kg					<460		
Nitrophenol,2-	µg/kg					<460		
Nitrophenol,4-	µg/kg					<460		
Pentachlorophenol	µg/kg					<460		
Phenanthrene	µg/kg					<460		
Phenol	µg/kg					<460		
Propane),2,2'-oxybis(2-chloro-	µg/kg					<460		
Pyrene	µg/kg					<460		
Trichlorobenzene,1,2,4-	µg/kg					<460		
Trichlorophenol,2,4,6-	µg/kg					<460		
Acetone	µg/kg					<120		
Acrolein	µg/kg					<62		
Acrylonitrile	µg/kg					<62		
Benzene	µg/kg					<25		
Benzene (screening)	µg/kg	<6	<7	<7	<7		<7	<7
Bromobenzene	µg/kg					<25		
Bromoform	µg/kg					<25		
Carbon Disulfide	µg/kg					<25		
Carbon Tetrachloride	µg/kg					<25		
Chlorobenzene	µg/kg					<25		
Chlorodibromomethane	µg/kg					<25		
Chloroethane	µg/kg					<25		
Chloroethyl Vinyl Ether,2-	µg/kg					<25		
Chloroform	µg/kg					<25		
Chlorotoluene,o-	µg/kg					<25		
Chlorotoluene,p-	µg/kg					<25		

Notes: 1. Printed on 05/07/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

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Location ID	NA-SB-02							
Sample ID	1016760	1016761	1016762	1016763	1016764	1016764	1016765	1016765
Sample Date	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
Sample Time	12:40	12:45	13:45	13:52	14:02	14:02	14:11	14:11
Sample Depth	6' - 8'	6' - 8'	8' - 10'	10' - 12'	12' - 14'	12' - 14'	14' - 15'	14' - 15'
Laboratory	LEA	LEA	LEA	LEA	AEL	LEA	LEA	LEA
Lab. Number	96-3925-052	96-3926-053	96-3927-054	96-3928-055	AEL96009141	96-3929-056	96-3930-057	96-3930-057
Constituent	Units							
Dibromomethane	µg/kg					<25		
Dichlorobenzene, 1,2-	µg/kg					<25		
Dichlorobenzene, 1,3-	µg/kg					<25		
Dichlorobenzene, 1,4-	µg/kg					<25		
Dichlorobromomethane	µg/kg					<25		
Dichlorodifluoromethane	µg/kg					<25		
Dichloroethane, 1,1-	µg/kg					<25		
Dichloroethane, 1,2-	µg/kg					<25		
Dichloroethylene, 1,1-	µg/kg					<25		
Dichloroethylene, 1,2-cis-	µg/kg					<25		
Dichloroethylene, 1,2-trans-	µg/kg					<25		
Dichloropropane, 1,2-	µg/kg					<25		
Dichloropropylene, 1,3-cis-	µg/kg					<25		
Dichloropropylene, 1,3-trans-	µg/kg					<25		
Ethylbenzene	µg/kg					<25		
Ethylbenzene (screening)	µg/kg	<13	<14	<14	<14		<14	<14
Hexanone, 2-	µg/kg					<62		
Methyl Bromide	µg/kg					<25		
Methyl Chloride	µg/kg					<25		
Methyl Ethyl Ketone	µg/kg					<62		
Methyl-2-pentanone, 4-	µg/kg					<62		
Methyl-tert-butyl Ether	µg/kg					<25		
Methylene Chloride	µg/kg					<25		
Styrene	µg/kg					<25		
Tetrachloroethane, 1,1,1,2-	µg/kg					<25		
Tetrachloroethane, 1,1,2,2-	µg/kg					<25		
Tetrachloroethylene	µg/kg					<25		
Tetrachloroethylene (screening)	µg/kg	<17	<18	<18	<18		<18	<18

Notes: 1. Printed on 05/07/98

**LEA**



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

**DRAFT**

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	Location ID	NA-SB-03						
Sample ID		1016767	1016767	1016768	1016769	1016770	1016770	1016771
Sample Date		08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
Sample Time		:	:	:	:	:	:	:
Sample Depth		0' - 2'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	6' - 8'	8' - 10'
Laboratory		AEL	LEA	LEA	LEA	AEL	LEA	LEA
Lab. Number		AEL96009142	96-3932-059	96-3933-060	96-3934-061	AEL96009143	96-3937-066	96-3938-067
Constituent	Units							
Date Metals Analyzed	-	08/20/1996				08/20/1996		
Date Organics Analyzed	-	08/22/1996	08/15/1996	08/15/1996	08/15/1996	08/22/1996	08/15/1996	08/15/1996
Date Semi-volatile Organics Analyzed	-	08/30/1996				08/30/1996		
Arsenic	mg/kg	3.09				<1.17		
Barium	mg/kg	16.5				13.9		
Cadmium	mg/kg	<3.13				<3.5		
Chromium	mg/kg	6.78				<5.84		
Copper	mg/kg	22.9				<5.84		
Lead	mg/kg	<20.9				<23.3		
Mercury	mg/kg	<0.209				<0.233		
Nickel	mg/kg	<10.4				<11.7		
Selenium	mg/kg	<1.04				<1.17		
Silver	mg/kg	<5.22				<5.84		
Zinc	mg/kg	20.9				16.1		
Total Petroleum Hydrocarbons	mg/kg	<35.3				<41.0		
Acenaphthene	µg/kg	<350				<410		
Acenaphthylene	µg/kg	<350				<410		
Anthracene	µg/kg	<350				<410		
Benzidine	µg/kg	<350				<410		
Benzo[a]anthracene	µg/kg	<350 N1				<410		
Benzo[a]pyrene	µg/kg	<350 N1				<410		
Benzo[b]fluoranthene	µg/kg	<350 N1				<410		
Benzo[ghi]perylene	µg/kg	<350 N1				<410		
Benzo[k]fluoranthene	µg/kg	<350 N1				<410		
Bis(2-chloroethoxy)methane	µg/kg	<350				<410		
Bis(2-chloroethyl) Ether	µg/kg	<350				<410		
Bis(2-ethylhexyl)phthalate	µg/kg	<350				<410		
Bromophenyl Phenyl Ether, 4-	µg/kg	<350				<410		

Notes: 1. Printed on 05/07/98

**LEA**

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

**DRAFT**

	Location ID	NA-SB-03						
	Sample ID	1016767	1016767	1016768	1016769	1016770	1016770	1016771
	Sample Date	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
	Sample Time	:	:	:	:	:	:	:
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	6' - 8'	8' - 10'
	Laboratory	AEL	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	AEL96009142	96-3932-059	96-3933-060	96-3934-061	AEL96009143	96-3937-066	96-3938-067
Constituent	Units							
Butyl Benzyl Phthalate	µg/kg	<350				<410		
Chloronaphthalene,2-	µg/kg	<350				<410		
Chlorophenol,2-	µg/kg	<350				<410		
Chlorophenyl Phenyl Ether,4-	µg/kg	<350				<410		
Chrysene	µg/kg	<350 N1				<410		
Di-n-butyl Phthalate	µg/kg	<880				<1000		
Di-n-octyl Phthalate	µg/kg	<350				<410		
Dibenzo[a,h]anthracene	µg/kg	<350				<410		
Dichlorobenzidine,3,3'-	µg/kg	<350				<410		
Dichlorophenol,2,4-	µg/kg	<350				<410		
Diethyl Phthalate	µg/kg	<350				<410		
Dimethyl Phthalate	µg/kg	<350				<410		
Dimethylphenol,2,4-	µg/kg	<350				<410		
Dinitro-o-cresol,4,6-	µg/kg	<350				<410		
Dinitrophenol,2,4-	µg/kg	<350				<410		
Dinitrotoluene,2,4-	µg/kg	<350				<410		
Dinitrotoluene,2,6-	µg/kg	<350				<410		
Diphenylhydrazine,1,2-	µg/kg	<350				<410		
Fluoranthene	µg/kg	<350 N1				<410		
Fluorene	µg/kg	<350				<410		
Hexachlorobenzene	µg/kg	<350				<410		
Hexachlorobutadiene	µg/kg	<350				<410		
Hexachlorocyclopentadiene	µg/kg	<350				<410		
Hexachloroethane	µg/kg	<350				<410		
Indeno(1,2,3-cd)pyrene	µg/kg	<350 N1				<410		
Isophorone	µg/kg	<350				<410		
N-nitroso-n-propylamine	µg/kg	<350				<410		
N-nitrosodimethylamine	µg/kg	<350				<410		

Notes: 1. Printed on 05/07/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

**DRAFT**

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Location ID	NA-SB-03	NA-SB-03						
Sample ID	1016767	1016767	1016768	1016769	1016770	1016770	1016771	
Sample Date	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
Sample Time	:	:	:	:	:	:	:	:
Sample Depth	0' - 2'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	6' - 8'	8' - 10'	
Laboratory	AEL	LEA	LEA	LEA	AEL	LEA	LEA	LEA
Lab. Number	AEL96009142	96-3932-059	96-3933-060	96-3934-061	AEL96009143	96-3937-066	96-3938-067	
Constituent	Units							
N-nitrosodiphenylamine	µg/kg	<350				<410		
Naphthalene	µg/kg	<350				<410		
Nitrobenzene	µg/kg	<350				<410		
Nitrophenol,2-	µg/kg	<350				<410		
Nitrophenol,4-	µg/kg	<350				<410		
Pentachlorophenol	µg/kg	<350				<410		
Phenanthrene	µg/kg	<350 N1				<410		
Phenol	µg/kg	<350				<410		
Propane),2,2'-oxybis(2-chloro-	µg/kg	<350				<410		
Pyrene	µg/kg	<350 N1				<410		
Trichlorobenzene,1,2,4-	µg/kg	<350				<410		
Trichlorophenol,2,4,6-	µg/kg	<350				<410		
Acetone	µg/kg	<23				<33		
Acrolein	µg/kg	<11				<13		
Acrylonitrile	µg/kg	<11				<13		
Benzene	µg/kg	<4.5				<5.1		
Benzene (screening)	µg/kg		<7	<8	<8		<15	<8
Bromobenzene	µg/kg	<4.5				<5.1		
Bromoform	µg/kg	<4.5				<5.1		
Carbon Disulfide	µg/kg	<4.5				<5.1		
Carbon Tetrachloride	µg/kg	<4.5				<5.1		
Chlorobenzene	µg/kg	<4.5				<5.1		
Chlorodibromomethane	µg/kg	<4.5				<5.1		
Chloroethane	µg/kg	<4.5				<5.1		
Chloroethyl Vinyl Ether,2-	µg/kg	<4.5				<5.1		
Chloroform	µg/kg	<4.5				<5.1		
Chlorotoluene,o-	µg/kg	<4.5				<5.1		
Chlorotoluene,p-	µg/kg	<4.5				<5.1		

Notes: 1. Printed on 05/07/98

**LEA**

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

**DRAFT**

	Location ID	NA-SB-03						
	Sample ID	1016767	1016767	1016768	1016769	1016770	1016770	1016771
	Sample Date	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996	08/09/1996
	Sample Time	:	:	:	:	:	:	:
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	4' - 6'	6' - 8'	6' - 8'	8' - 10'
	Laboratory	AEL	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	AEL96009142	96-3932-059	96-3933-060	96-3934-061	AEL96009143	96-3937-066	96-3938-067
Constituent	Units							
Dibromomethane	µg/kg	<4.5				<5.1		
Dichlorobenzene,1,2-	µg/kg	<4.5				<5.1		
Dichlorobenzene,1,3-	µg/kg	<4.5				<5.1		
Dichlorobenzene,1,4-	µg/kg	<4.5				<5.1		
Dichlorobromomethane	µg/kg	<4.5				<5.1		
Dichlorodifluoromethane	µg/kg	<4.5				<5.1		
Dichloroethane,1,1-	µg/kg	<4.5				<5.1		
Dichloroethane,1,2-	µg/kg	<4.5				<5.1		
Dichloroethylene,1,1-	µg/kg	<4.5				<5.1		
Dichloroethylene,1,2-cis-	µg/kg	<4.5				<5.1		
Dichloroethylene,1,2-trans-	µg/kg	<4.5				<5.1		
Dichloropropane,1,2-	µg/kg	<4.5				<5.1		
Dichloropropylene,1,3-cis-	µg/kg	<4.5				<5.1		
Dichloropropylene,1,3-trans-	µg/kg	<4.5				<5.1		
Ethylbenzene	µg/kg	<4.5				<5.1		
Ethylbenzene (screening)	µg/kg		<15	<18	<17		<33	<17
Hexanone,2-	µg/kg	<11				<13		
Methyl Bromide	µg/kg	<4.5				<5.1		
Methyl Chloride	µg/kg	<4.5				<5.1		
Methyl Ethyl Ketone	µg/kg	<11				<13		
Methyl-2-pentanone,4-	µg/kg	<11				<13		
Methyl-tert-butyl Ether	µg/kg	<4.5				<5.1		
Methylene Chloride	µg/kg	<4.5				<5.1		
Styrene	µg/kg	<4.5				<5.1		
Tetrachloroethane,1,1,1,2-	µg/kg	<4.5				<5.1		
Tetrachloroethane,1,1,2,2-	µg/kg	<4.5				<5.1		
Tetrachloroethylene	µg/kg	<4.5				<5.1		
Tetrachloroethylene (screening)	µg/kg		<18	<23	<22		<41	<22

Notes: 1. Printed on 05/07/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

**DRAFT**

	Location ID	NA-SB-03	NA-SB-03	NA-SB-03				
	Sample ID	1016772	1016773	1016774				
	Sample Date	08/09/1996	08/09/1996	08/09/1996				
	Sample Time	:	:	:				
	Sample Depth	10' - 12'	12' - 14'	14' - 15'				
	Laboratory	LEA	LEA	LEA				
	Lab. Number	96-3940-069	96-3941-070	96-3942-071				
Constituent	Units							
Date Metals Analyzed	-							
Date Organics Analyzed	-	08/15/1996	08/15/1996	08/15/1996				
Date Semi-volatile Organics Analyzed	-							
Arsenic	mg/kg							
Barium	mg/kg							
Cadmium	mg/kg							
Chromium	mg/kg							
Copper	mg/kg							
Lead	mg/kg							
Mercury	mg/kg							
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg							
Zinc	mg/kg							
Total Petroleum Hydrocarbons	mg/kg							
Acenaphthene	µg/kg							
Acenaphthylene	µg/kg							
Anthracene	µg/kg							
Benzidine	µg/kg							
Benzo[a]anthracene	µg/kg							
Benzo[a]pyrene	µg/kg							
Benzo[b]fluoranthene	µg/kg							
Benzo[ghi]perylene	µg/kg							
Benzo[k]fluoranthene	µg/kg							
Bis(2-chloroethoxy)methane	µg/kg							
Bis(2-chloroethyl) Ether	µg/kg							
Bis(2-ethylhexyl)phthalate	µg/kg							
Bromophenyl Phenyl Ether, 4-	µg/kg							

Notes: 1. Printed on 05/07/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

**DRAFT**

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	Location ID	NA-SB-03	NA-SB-03	NA-SB-03				
	Sample ID	1016772	1016773	1016774				
	Sample Date	08/09/1996	08/09/1996	08/09/1996				
	Sample Time	:	:	:				
	Sample Depth	10' - 12'	12' - 14'	14' - 15'				
	Laboratory	LEA	LEA	LEA				
	Lab. Number	96-3940-069	96-3941-070	96-3942-071				
<b>Constituent</b>	<b>Units</b>							
Butyl Benzyl Phthalate	µg/kg							
Chloronaphthalene,2-	µg/kg							
Chlorophenol,2-	µg/kg							
Chlorophenyl Phenyl Ether,4-	µg/kg							
Chrysene	µg/kg							
Di-n-butyl Phthalate	µg/kg							
Di-n-octyl Phthalate	µg/kg							
Dibenzo[a,h]anthracene	µg/kg							
Dichlorobenzidine,3,3'-	µg/kg							
Dichlorophenol,2,4-	µg/kg							
Diethyl Phthalate	µg/kg							
Dimethyl Phthalate	µg/kg							
Dimethylphenol,2,4-	µg/kg							
Dinitro-o-cresol,4,6-	µg/kg							
Dinitrophenol,2,4-	µg/kg							
Dinitrotoluene,2,4-	µg/kg							
Dinitrotoluene,2,6-	µg/kg							
Diphenylhydrazine,1,2-	µg/kg							
Fluoranthene	µg/kg							
Fluorene	µg/kg							
Hexachlorobenzene	µg/kg							
Hexachlorobutadiene	µg/kg							
Hexachlorocyclopentadiene	µg/kg							
Hexachloroethane	µg/kg							
Indeno(1,2,3-cd)pyrene	µg/kg							
Isophorone	µg/kg							
N-nitroso-n-propylamine	µg/kg							
N-nitrosodimethylamine	µg/kg							

Notes: 1. Printed on 05/07/98

**LEA**

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

**DRAFT**

	Location ID	NA-SB-03	NA-SB-03	NA-SB-03			
	Sample ID	1016772	1016773	1016774			
	Sample Date	08/09/1996	08/09/1996	08/09/1996			
	Sample Time	:	:	:			
	Sample Depth	10' - 12'	12' - 14'	14' - 15'			
	Laboratory	LEA	LEA	LEA			
	Lab. Number	96-3940-069	96-3941-070	96-3942-071			
Constituent	Units						
N-nitrosodiphenylamine	µg/kg						
Naphthalene	µg/kg						
Nitrobenzene	µg/kg						
Nitrophenol,2-	µg/kg						
Nitrophenol,4-	µg/kg						
Pentachlorophenol	µg/kg						
Phenanthrene	µg/kg						
Phenol	µg/kg						
Propane),2,2'-oxybis(2-chloro-	µg/kg						
Pyrene	µg/kg						
Trichlorobenzene,1,2,4-	µg/kg						
Trichlorophenol,2,4,6-	µg/kg						
Acetone	µg/kg						
Acrolein	µg/kg						
Acrylonitrile	µg/kg						
Benzene	µg/kg						
Benzene (screening)	µg/kg	<8	<8	<8			
Bromobenzene	µg/kg						
Bromoform	µg/kg						
Carbon Disulfide	µg/kg						
Carbon Tetrachloride	µg/kg						
Chlorobenzene	µg/kg						
Chlorodibromomethane	µg/kg						
Chloroethane	µg/kg						
Chloroethyl Vinyl Ether,2-	µg/kg						
Chloroform	µg/kg						
Chlorotoluene,o-	µg/kg						
Chlorotoluene,p-	µg/kg						

Notes: 1. Printed on 05/07/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: Former Army Barracks Septic Systems**

**DRAFT**

	Location ID	NA-SB-03	NA-SB-03	NA-SB-03				
	Sample ID	1016772	1016773	1016774				
	Sample Date	08/09/1996	08/09/1996	08/09/1996				
	Sample Time	:	:	:				
	Sample Depth	10' - 12'	12' - 14'	14' - 15'				
	Laboratory	LEA	LEA	LEA				
	Lab. Number	96-3940-069	96-3941-070	96-3942-071				
Constituent	Units							
Dibromomethane	µg/kg							
Dichlorobenzene, 1,2-	µg/kg							
Dichlorobenzene, 1,3-	µg/kg							
Dichlorobenzene, 1,4-	µg/kg							
Dichlorobromomethane	µg/kg							
Dichlorodifluoromethane	µg/kg							
Dichloroethane, 1,1-	µg/kg							
Dichloroethane, 1,2-	µg/kg							
Dichloroethylene, 1,1-	µg/kg							
Dichloroethylene, 1,2-cis-	µg/kg							
Dichloroethylene, 1,2-trans-	µg/kg							
Dichloropropane, 1,2-	µg/kg							
Dichloropropylene, 1,3-cis-	µg/kg							
Dichloropropylene, 1,3-trans-	µg/kg							
Ethylbenzene	µg/kg							
Ethylbenzene (screening)	µg/kg	<18	<17	<17				
Hexanone, 2-	µg/kg							
Methyl Bromide	µg/kg							
Methyl Chloride	µg/kg							
Methyl Ethyl Ketone	µg/kg							
Methyl-2-pentanone, 4-	µg/kg							
Methyl-tert-butyl Ether	µg/kg							
Methylene Chloride	µg/kg							
Styrene	µg/kg							
Tetrachloroethane, 1,1,1,2-	µg/kg							
Tetrachloroethane, 1,1,2,2-	µg/kg							
Tetrachloroethylene	µg/kg							
Tetrachloroethylene (screening)	µg/kg	<23	<21	<22				

Notes: 1. Printed on 05/07/98



**DRAWINGS**

US EPA New England  
RCRA Document Management System  
Image Target Sheet

RDMS Document ID # 2585

Facility Name: PRATT & WHITNEY - MAIN STREET

Facility ID#: CTD990672081

Phase Classification: R-1B

**Purpose of Target Sheet:**

Oversized (in Site File)       Oversized (in Map Drawer)

Page(s) Missing (Please Specify Below)

Privileged       Other (Provide Purpose Below)

**Description of Oversized Material, if applicable:**

**DRAWING 1: SOIL INVESTIGATIONS, FORMER ARMY  
BARRACKS AREA, LOCATION & CONSTITUENTS  
DETECTED MAP**

Map       Photograph       Other (Specify Below)

\* Please Contact the EPA New England RCRA Records Center to View This Document \*

# DRAFT

## UNIT-SPECIFIC TECHNICAL MEMORANDUM: X-194 ABOVEGROUND STORAGE TANK PRATT & WHITNEY, EAST HARTFORD, CT

---

**AREA:** North Klondike

**SUB-AREA:** X-194 (also known as X-448)

**ENVIRONMENTAL UNIT:** X-194 Aboveground Storage Tank

**Location:** In the North Klondike Area, third road south on the North Access Road from the Perimeter Road (Drawing 1). The former aboveground storage tank (AST) was located east of the X-194 Test Stand.

**Description:** A former 1,000-gallon No. 2 fuel oil AST was located near the fence in the northwest corner of the X-194 Area. Presently, no evidence of the tank's presence remains.

**Dates of Operation:** Approximately 1957 to 1993 based on the dates of operation of the X-194 test stand.

**Processes:** Supply fuel oil to the X-194 Test Stand buildings.

**Aerial Photographs:** Large-scale aerial photographs for 1965, 1970, and 1975 were obtained from Keystone Aerial Surveys, Inc. One small aerial photo was obtained from the Pratt & Whitney (P&W) Photographic Services Department.

All of these aerial photographs portray an aboveground fuel oil tank located in close proximity to the northeast corner of the X-194 Area.

**Specific Contaminants of Concern:** No. 2 fuel oil is the primary constituent of concern. In order to be as comprehensive as possible in the investigation that was conducted, the following constituent groups were analyzed for: volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver, nickel, and zinc), and total petroleum hydrocarbons (TPH).

**Potential Release Mechanism:** Impacts to soils and groundwater from potential spills or leaks associated with tank filling and tank leakage from the bulk fuel oil storage tank.

### INVESTIGATION AND REMEDIATION ACTIVITIES:

Due to the potential for a release associated with the former 1,000-gallon fuel oil AST, a subsurface investigation to determine the degree and extent of soil contamination in the vicinity of the tank was performed in May 1997 and March 1997. Prior to 1997, no investigation of this tank had reportedly been performed.

# DRAFT

## March 1997 Investigation (Loureiro Engineering Associates, P.C.):

**Description:** On March 6 and 7, 1997, four soil borings, NK-SB-260 through NK-SB-263, were advanced in the vicinity of the former AST by Loureiro Engineering Associates, P.C. (LEA). The sampling locations are shown on Drawing 1. The boring locations were selected to provide coverage of the approximate footprint of the former AST. Soil samples were collected from each of the borings in continuous 2-foot intervals to 12 feet. The depth of 12 feet was selected to ensure that the varved clay was encountered and that sufficient data was collected for comparisons against the direct exposure criteria (DEC) in the Connecticut Remediation Standard Regulation (RSR).

A total of twenty-five soil samples were submitted to the LEA Analytical Laboratory and screened for the presence of target VOCs [benzene (BZ), ethylbenzene (EBZ), tetrachloroethylene (PCE), toluene (TL), 1,1,1-trichloroethane (TCA), trichloroethylene (TCE), and xylenes (XYL)]. Based on visual, olfactory, or instrument evidence, and with consideration of the potential release mechanism, two samples from each of the four borings were submitted to Averill Environmental Laboratory, Inc. (AEL). The samples were analyzed for the presence of VOCs, metals, and TPH. In addition, one soil sample per boring was also analyzed for SVOCs.

Groundwater samples were also collected from borings NK-SB-260 through NK-SB-263 using Geoprobe® screenpoint groundwater sampling techniques. Each of the groundwater samples was collected from a depth of 6 to 7 feet below the ground. The groundwater samples were submitted to AEL for analysis of VOCs, SVOCs, and TPH. A summary of the samples collected and analyses performed is included in Table 1.

**Investigation Results:** Based on the boring logs, groundwater was encountered at approximately 2 feet in boring NK-SB-262 and at 4 feet in the three remaining borings. Varved clay was encountered at 11 feet in borings NK-SB-260 and NK-SB-262. Varved clay was encountered at 11.5 feet in borings NK-SB-261 and NK-SB-263. No visual or olfactory evidence of contamination was noted in the boring logs for these soil borings.

Concentrations of constituents detected in soil samples collected for this unit are presented in Table 2. A complete summary of soil analytical results with detection limits is presented in Table 3. Detected concentrations at each sampling location are shown on Drawing 1. VOCs were not detected in the soil samples submitted to the LEA Analytical Laboratory or AEL.

One SVOC was detected in three of the four soil borings. Di-n-butyl phthalate (DBP) was detected in borings NK-SB-261, NK-SB-262, and NK-SB-263, with the highest detect noted at 1000 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ). No other SVOCs were detected in the soil samples submitted to AEL. However, several SVOCs were noted as "N1" in boring NK-SB-262 at 0 to 2 feet in the sample analyzed by AEL. The "N1" qualifier indicates that the compound analyzed was noted above the method detection limit, but below the reportable quantitation limit. These SVOCs qualified as noted include benzo[a]anthracene (BA), benzo[a]pyrene (BAP), benzo[b]fluoranthene (BBF), benzo[ghi]perylene (BGP), chrysene (CRYS), fluoranthene (FA), indeno(1,2,3-cd)pyrene (IP), phenanthrene (PHN), and pyrene (PYR).

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One or more of the metals analyzed were detected in each of the soil samples submitted to AEL for analysis. These metals include barium, chromium, mercury, and zinc. TPH was not detected in the soil samples submitted to AEL. VOCs, SVOCs, and TPH were not detected in any of the groundwater samples submitted to AEL. A complete summary of groundwater analytical results with detection limits is presented in Table 4.

**Data Evaluation and Conclusions:** Based on the presence of DBP in the vicinity of the former AST, there is evidence that a release may have occurred. DBP has reportedly been used as a plasticizer in explosives and solid rocket propellants (Hawley, 1981). However, the specific use of DBP in the X-194 Area by P & W has not been documented. The source for the DBP may be from the solid rocket fuel testing previously performed in the X-194 Area. The degree and extent of soil and groundwater contamination resulting from potential releases from the fuel oil AST has been adequately characterized. However, the degree and extent of soil contamination resulting from the DBP has not been adequately characterized.

The data were compared against the default numeric criteria included in the RSR and the site-wide background soil concentrations for the North Klondike for various inorganic constituents (Fuss & O'Neill, 1994). For a more detailed discussion of background concentrations of metals in soil refer to *Technical Memorandum 4, Background Soil Data*. Criteria are established in the RSR based on exposure pathways for various environmental media, including soil and groundwater. A qualitative evaluation was performed because characterization of the identified contamination has not been completed. The intent of the comparison is not to show compliance with the RSR, but rather to give a general perspective regarding the magnitude of contamination detected. The evaluation of the soils data is based on a comparison to the residential direct exposure criteria (RDEC) and the industrial/commercial direct exposure criteria (IDEC) and the GB pollutant mobility criteria (PMC) included in the RSR, as well as the site-wide background soil concentrations for inorganic constituents.

The concentrations of the metals detected in the soil samples are typical of site-wide soil background concentrations, except for mercury in boring NK-SB-261 at a depth of 0 to 2 feet. Mercury was detected at a concentration of 0.796 milligrams per kilogram (mg/kg), which was slightly above the site-wide soil background concentration for this metal. Since none of the other metals were elevated in this sample and mercury was not detected above background in any of the other soil samples, it is believed that this concentration is representative of background concentrations at this location. Thus, the metals detected are not indicative of a release at this unit. For the metals detected in soil, no exceedances of the RDEC or IDEC were noted.

The analytical results for groundwater samples immediately below this unit did not indicate the presence of VOCs, SVOCs, or TPH. For the DBP that was detected, no exceedances of the default numeric RDEC, IDEC, and the GBPMC were noted.

## **May 1997 Investigation (LEA):**

**Description:** On May 22, 1997, seven soil borings, NK-SB-293, NK-SB-294, NK-SB-295, NK-SB-296, NK-SB-297, NK-SB-298 and NK-SB-304, were advanced in the vicinity of the former AST. The sampling locations are shown on Drawing 1. Soil samples were collected from each

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of the borings in continuous 2-foot intervals to 4 feet. This limited additional soil investigation was performed to define the extent of the contamination in the vicinity of soil borings NK-SB-261 through NK-SB-263 in which DBP had been detected at 0 to 2 feet. The depth of 4 feet was selected based on the shallow interval, 0 to 2 feet, that DBP contamination had previously been detected.

A total of fourteen soil samples from depths of 0 to 2 and 2 to 4 feet (above the water table) from these additional borings were submitted to Quanterra Inc. (QNT) and analyzed for the presence of SVOCs. A summary of the samples collected and analyses is included in Table 1.

**Investigation Results:** Based on the boring logs, groundwater was encountered between 2 and 4 feet in all seven borings. No visual or olfactory evidence of contamination was noted on the boring logs.

Concentrations of constituents detected in soil samples collected for this unit are presented in Table 2. A complete summary of soil analytical results with detection limits is presented in Table 3. SVOCs were not detected in the seven soil borings.

**Data Evaluation and Conclusions:** Based on the presence of DBP detected during the March 1997 investigation in the vicinity of the AST, there is evidence that a limited release may have occurred. DBP was not detected during the May 1997 investigation to delineate the extent of the DBP contamination. The degree and extent of soil contamination resulting from potential releases from the fuel oil AST and from the DBP detected has been adequately characterized.

Based on the results of the laboratory analyses of soil samples, this unit is believed to be adequately characterized. No exceedances of the default numeric criteria included in the RSR were noted. As a result, no further investigation or remediation is warranted at this unit. The analytical results for groundwater samples immediately below this unit did not indicate the presence of VOCs, SVOCs, or TPH. The groundwater data for this unit supports the conclusion that no further action is warranted.

## REFERENCES:

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Needs  
Further  
clarification

# DRAFT

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**TABLES**

**Table 1**  
**SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

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Sample Information						Analysis Information								
Location ID	Sample ID	Sample Date	From (ft)	To (ft)	Class	Portable GC	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Extraction	Miscellaneous
NK-SB-260	1027033	3/ 6/97	0	2	SB	x	x	x				X		x
NK-SB-260	1027034	3/ 6/97	2	4	SB	x								
NK-SB-260	1027035	3/ 6/97	2	4	SB	x								
NK-SB-260	1027036	3/ 6/97	4	6	SB	x	x					X		x
NK-SB-260	1027037	3/ 6/97	6	8	SB	x								
NK-SB-260	1027038	3/ 6/97	8	10	SB	x								
NK-SB-260	1027039	3/ 6/97	10	12	SB	x								
NK-SB-260	1027131	3/ 7/97	6.0	7.0	GW		x	x						x
NK-SB-261	1027040	3/ 6/97	0	2	SB	x	x	X				X		
NK-SB-261	1027041	3/ 6/97	2	4	SB	x								
NK-SB-261	1027042	3/ 6/97	4	6	SB	x	x					X		x
NK-SB-261	1027043	3/ 6/97	6	8	SB	x								
NK-SB-261	1027044	3/ 6/97	8	10	SB	x								
NK-SB-261	1027045	3/ 6/97	10	12	SB	x								
NK-SB-261	1027132	3/ 7/97	6.0	7.0	GW		x	x						x
NK-SB-262	1027046	3/ 6/97	0	2	SB	x	x	X				X		x
NK-SB-262	1027047	3/ 6/97	2	4	SB	x								
NK-SB-262	1027048	3/ 6/97	4	6	SB	x	x					X		x
NK-SB-262	1027049	3/ 6/97	6	8	SB	x								
NK-SB-262	1027050	3/ 6/97	8	10	SB	x								
NK-SB-262	1027051	3/ 6/97	10	12	SB	x								
NK-SB-262	1027133	3/ 7/97	6.0	7.0	GW		x	x						x
NK-SB-263	1027052	3/ 6/97	0	2	SB	x	x	X				X		x
NK-SB-263	1027053	3/ 6/97	2	4	SB	x								
NK-SB-263	1027054	3/ 6/97	4	6	SB	x	x					X		x
NK-SB-263	1027055	3/ 6/97	6	8	SB	x								
NK-SB-263	1027056	3/ 6/97	8	10	SB	x								
NK-SB-263	1027057	3/ 6/97	10	12	SB	x								
NK-SB-263	1027134	3/ 7/97	6.0	7.0	GW		x	x						x
NK-SB-293	1634105	5/22/97	0	2	SB			x						
NK-SB-293	1634106	5/22/97	2	4	SB			x						

Notes: 1. Legend: X - Analysed; at least one analyte over the detection limit; x - Analysed, no analytes in group over the detection limit

2. Printed on 05/14/98



**Table 1**  
**SUMMARY OF SAMPLING AND ANALYTICAL INFORMATION**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

Sample Information						Analysis Information								
Location ID	Sample ID	Sample Date	From (ft)	To (ft)	Class	Portable GC	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Metals	Extraction	Miscellaneous
NK-SB-294	1634107	5/22/97	0	2	SB			x						
NK-SB-294	1634108	5/22/97	2	4	SB			x						
NK-SB-295	1634092	5/20/97	0	2	SB			x						
NK-SB-295	1634093	5/20/97	2	4	SB			x						
NK-SB-296	1634094	5/20/97	0	2	SB			x						
NK-SB-296	1634095	5/20/97	2	4	SB			x						
NK-SB-297	1634096	5/20/97	0	2	SB			x						
NK-SB-297	1634097	5/20/97	2	4	SB			x						
NK-SB-298	1634098	5/20/97	0	2	SB			x						
NK-SB-298	1634099	5/20/97	2	4	SB			x						
NK-SB-304	1634109	5/22/97	0	2	SB			x						
NK-SB-304	1634110	5/22/97	2	4	SB			x						

Notes: 1. Legend: X - Analysed; at least one analyte over the detection limit; x - Analysed, no analytes in group over the detection limit  
2. Printed on 05/14/98





**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

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	Location ID	NK-SB-260	NK-SB-260	NK-SB-260	NK-SB-260	NK-SB-260	NK-SB-260	NK-SB-260
Sample ID	1027033	1027033	1027033	1027034	1027035	1027036	1027036	1027037
Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
Sample Time	10:07	10:07	10:07	10:10	10:10	10:15	10:15	10:19
Sample Depth	0' - 2'	0' - 2'	2' - 4'	2' - 4'	4' - 6'	4' - 6'	4' - 6'	6' - 8'
Laboratory	AEL	LEA	LEA	LEA	LEA	AEL	LEA	LEA
Lab. Number	AEL97003099	97-1849-349	97-1850-350	97-1851-351	AEL97003100	97-1852-352	97-1853-353	
Constituent	Units							
Date Metals Analyzed	-	03/18/1997				03/18/1997		
Date Organics Analyzed	-	03/20/1997	03/08/1997	03/08/1997	03/08/1997	03/20/1997	03/08/1997	03/08/1997
Date Semi-volatile Organics Analyzed	-	04/04/1997						
Dinoseb	µg/kg							
Arsenic	mg/kg	<0.45				<0.5		
Barium	mg/kg	9.96				6.96		
Cadmium	mg/kg	<3.36				<3.66		
Chromium	mg/kg	6.38				<6.1		
Lead	mg/kg	<22.4				<24.4		
Mercury	mg/kg	<0.09				<0.10		
Nickel	mg/kg	<11.2				<12.2		
Selenium	mg/kg	<1.12				<1.22		
Silver	mg/kg	<5.6				<6.1		
Zinc	mg/kg	13.4				13.1		
Acetylaminofluorene,2-	µg/kg							
Aramite	µg/kg							
Dimethoate	µg/kg							
Disulfoton	µg/kg							
Famphur	µg/kg							
Phorate	µg/kg							
Total Petroleum Hydrocarbons	mg/kg	<37.9				<40.6		
Acenaphthene	µg/kg	<380						
Acenaphthylene	µg/kg	<380						
Acetophenone	µg/kg							
Aminobiphenyl,4-	µg/kg							
Aniline	µg/kg							
Anthracene	µg/kg	<380						
Benzidine	µg/kg	<380						

Notes: 1. Printed on 05/05/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-260						
	Sample ID	1027033	1027033	1027034	1027035	1027036	1027036	1027037
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	10:07	10:07	10:10	10:10	10:15	10:15	10:19
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	2' - 4'	4' - 6'	4' - 6'	6' - 8'
	Laboratory	AEL	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	AEL97003099	97-1849-349	97-1850-350	97-1851-351	AEL97003100	97-1852-352	97-1853-353
Constituent	Units							
Benzo[a]anthracene	µg/kg	<380						
Benzo[a]pyrene	µg/kg	<380						
Benzo[b]fluoranthene	µg/kg	<380						
Benzo[ghi]perylene	µg/kg	<380						
Benzo[k]fluoranthene	µg/kg	<380						
Benzoic Acid	µg/kg							
Benzyl Alcohol	µg/kg							
Benzyl Butyl Phthalate	µg/kg							
Bis(2-chloroethoxy)methane	µg/kg	<380						
Bis(2-chloroethyl) Ether	µg/kg	<380						
Bis(2-ethylhexyl) Phthalate	µg/kg	<380						
Bromophenyl Phenyl Ether, 4-	µg/kg	<380						
Butyl Benzyl Phthalate	µg/kg	<380						
Carbazole	µg/kg							
Chloro-m-cresol, p-	µg/kg							
Chloroaniline, 4-	µg/kg							
Chloronaphthalene, 2-	µg/kg	<380						
Chlorophenol, 2-	µg/kg	<380						
Chlorophenyl Phenyl Ether, 4-	µg/kg	<380						
Chrysene	µg/kg	<380						
Cresol, 2-	µg/kg							
Cresol, 3-	µg/kg							
Cresol, 4-	µg/kg							
Di-n-butyl Phthalate	µg/kg	<380						
Di-n-octyl Phthalate	µg/kg	<380						
Dibenzo[a,h]anthracene	µg/kg	<380						
Dibenzofuran	µg/kg							
Dichlorobenzidine, 3,3'-	µg/kg	<380						

Notes: 1. Printed on 05/05/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-260						
Sample ID		1027033	1027033	1027034	1027035	1027036	1027036	1027037
Sample Date		03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
Sample Time		10:07	10:07	10:10	10:10	10:15	10:15	10:19
Sample Depth		0' - 2'	0' - 2'	2' - 4'	2' - 4'	4' - 6'	4' - 6'	6' - 8'
Laboratory		AEL	LEA	LEA	LEA	AEL	LEA	LEA
Lab. Number		AEL97003099	97-1849-349	97-1850-350	97-1851-351	AEL97003100	97-1852-352	97-1853-353
Constituent	Units							
Dichlorophenol,2,4-	µg/kg	<380						
Diethyl Phthalate	µg/kg	<380						
Dimethyl Phthalate	µg/kg	<380						
Dimethylaminoazobenzene,4-	µg/kg							
Dimethylbenzidine,3,3'-	µg/kg							
Dimethylbenzo[a]anthracene,7,12-	µg/kg							
Dimethylphenethylamine,alpha,alpha-	µg/kg							
Dimethylphenol,2,4-	µg/kg	<380						
Dinitro-o-cresol,4,6-	µg/kg	<380						
Dinitrobenzene,1,3-	µg/kg							
Dinitrophenol,2,4-	µg/kg	<380						
Dinitrotoluene,2,4-	µg/kg	<380						
Dinitrotoluene,2,6-	µg/kg	<380						
Diphenylamine	µg/kg							
Diphenylhydrazine,1,2-	µg/kg	<380						
Ethyl Methanesulfonate	µg/kg							
Fluoranthene	µg/kg	<380						
Fluorene	µg/kg	<380						
Hexachlorobenzene	µg/kg	<380						
Hexachlorobutadiene	µg/kg	<380						
Hexachlorocyclopentadiene	µg/kg	<380						
Hexachloroethane	µg/kg	<380						
Hexachlorophene	µg/kg							
Hexachloropropylene	µg/kg							
Indeno(1,2,3-cd)pyrene	µg/kg	<380						
Isophorone	µg/kg	<380						
Isosafrole	µg/kg							
Methapyrilene	µg/kg							

Notes: 1. Printed on 05/05/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-260						
	Sample ID	1027033	1027033	1027034	1027035	1027036	1027036	1027037
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	10:07	10:07	10:10	10:10	10:15	10:15	10:19
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	2' - 4'	4' - 6'	4' - 6'	6' - 8'
	Laboratory	AEL	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	AEL97003099	97-1849-349	97-1850-350	97-1851-351	AEL97003100	97-1852-352	97-1853-353
Constituent	Units							
Methyl Methanesulfonate	µg/kg							
Methylcholanthrene,3-	µg/kg							
Methylnaphthalene,2-	µg/kg							
N-nitroso-di-n-butylamine	µg/kg							
N-nitroso-n-propylamine	µg/kg	<380						
N-nitrosodiethylamine	µg/kg							
N-nitrosodimethylamine	µg/kg	<380						
N-nitrosodiphenylamine	µg/kg	<380						
N-nitrosomethylethylamine	µg/kg							
N-nitrosomorpholine	µg/kg							
N-nitrosopiperidine	µg/kg							
Naphthalene	µg/kg	<380						
Naphthoquinone,1,4-	µg/kg							
Naphthylamine,alpha-	µg/kg							
Naphthylamine,beta-	µg/kg							
Nitro-o-toluidine,5-	µg/kg							
Nitroaniline,2-	µg/kg							
Nitroaniline,3-	µg/kg							
Nitroaniline,4-	µg/kg							
Nitrobenzene	µg/kg	<380						
Nitrophenol,2-	µg/kg	<380						
Nitrophenol,4-	µg/kg	<380						
Nitroquinoline-1-oxide,4-	µg/kg							
Nitrosopyrrolidine,n-	µg/kg							
Pentachlorophenol	µg/kg	<380						
Phenacetin	µg/kg							
Phenanthrene	µg/kg	<380						
Phenol	µg/kg	<380						

Notes: 1. Printed on 05/05/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-260						
	Sample ID	1027033	1027033	1027034	1027035	1027036	1027036	1027037
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	10:07	10:07	10:10	10:10	10:15	10:15	10:19
	Sample Depth	0' - 2'	0' - 2'	2' - 4'	2' - 4'	4' - 6'	4' - 6'	6' - 8'
	Laboratory	AEL	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	AEL97003099	97-1849-349	97-1850-350	97-1851-351	AEL97003100	97-1852-352	97-1853-353
Constituent	Units							
Phenylenediamine,1,4-	µg/kg							
Picoline,2-	µg/kg							
Pronamide	µg/kg							
Propane),2,2'-oxybis(1-chloro-	µg/kg							
Propane),2,2'-oxybis(2-chloro-	µg/kg	<380						
Pyrene	µg/kg	<380						
Pyridine	µg/kg							
Safrole	µg/kg							
Tetrachlorobenzene,1,2,4,5-	µg/kg							
Tetrachlorophenol,2,3,4,6-	µg/kg							
Toluidine,o-	µg/kg							
Trichlorobenzene,1,2,4-	µg/kg	<380						
Trichlorophenol,2,4,5-	µg/kg							
Trichlorophenol,2,4,6-	µg/kg	<380						
Triethyl Phosphorothioate,o,o,o-	µg/kg							
Trinitrobenzene,1,3,5-	µg/kg							
Acetone	µg/kg	<24				<24		
Acrolein	µg/kg	<12				<12		
Acrylonitrile	µg/kg	<12				<12		
Benzene	µg/kg	<4.8				<4.8		
Benzene (mobile)	µg/kg		<8	<8	<8		<8	<8
Bromobenzene	µg/kg	<4.8				<4.8		
Bromoform	µg/kg	<4.8				<4.8		
Carbon Disulfide	µg/kg	<4.8				<4.8		
Carbon Tetrachloride	µg/kg	<4.8				<4.8		
Chlorobenzene	µg/kg	<4.8				<4.8		
Chlorodibromomethane	µg/kg	<4.8				<4.8		
Chloroethane	µg/kg	<4.8				<4.8		

Notes: 1. Printed on 05/05/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

Location ID	NK-SB-260						
Sample ID	1027033	1027033	1027034	1027035	1027036	1027036	1027037
Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
Sample Time	10:07	10:07	10:10	10:10	10:15	10:15	10:19
Sample Depth	0' - 2'	0' - 2'	2' - 4'	2' - 4'	4' - 6'	4' - 6'	6' - 8'
Laboratory	AEL	LEA	LEA	LEA	AEL	LEA	LEA
Lab. Number	AEL97003099	97-1849-349	97-1850-350	97-1851-351	AEL97003100	97-1852-352	97-1853-353
Constituent	Units						
Chloroethyl Vinyl Ether,2-	µg/kg	<4.8				<4.8	
Chloroform	µg/kg	<4.8				<4.8	
Chlorotoluene,o-	µg/kg	<4.8				<4.8	
Chlorotoluene,p-	µg/kg	<4.8				<4.8	
Dibromomethane	µg/kg	<4.8				<4.8	
Dichlorobenzene,1,2-	µg/kg	<4.8				<4.8	
Dichlorobenzene,1,3-	µg/kg	<4.8				<4.8	
Dichlorobenzene,1,4-	µg/kg	<4.8				<4.8	
Dichlorobromomethane	µg/kg	<4.8				<4.8	
Dichlorodifluoromethane	µg/kg	<4.8				<4.8	
Dichloroethane,1,1-	µg/kg	<4.8				<4.8	
Dichloroethane,1,2-	µg/kg	<4.8				<4.8	
Dichloroethylene,1,1-	µg/kg	<4.8				<4.8	
Dichloroethylene,1,2-cis-	µg/kg	<4.8				<4.8	
Dichloroethylene,1,2-trans-	µg/kg	<4.8				<4.8	
Dichloropropane,1,2-	µg/kg	<4.8				<4.8	
Dichloropropylene,1,3-cis-	µg/kg	<4.8				<4.8	
Dichloropropylene,1,3-trans-	µg/kg	<4.8				<4.8	
Ethylbenzene	µg/kg	<4.8				<4.8	
Ethylbenzene (mobile)	µg/kg		<17	<17	<17		<17
Hexanone,2-	µg/kg	<12				<12	
Methyl Bromide	µg/kg	<4.8				<4.8	
Methyl Chloride	µg/kg	<4.8				<4.8	
Methyl Ethyl Ketone	µg/kg	<12				<12	
Methyl-2-pentanone,4-	µg/kg	<12				<12	
Methyl-tert-butyl Ether	µg/kg	<4.8				<4.8	
Methylene Chloride	µg/kg	<6.0				<4.8	
Pentachlorobenzene	µg/kg						

Notes: 1. Printed on 05/05/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-260	NK-SB-260	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-261
	Sample ID	1027038	1027039	1027040	1027040	1027041	1027042	1027042
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	10:30	10:35	11:05	11:05	11:10	11:16	11:16
	Sample Depth	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'	4' - 6'	4' - 6'
	Laboratory	LEA	LEA	AEL	LEA	LEA	AEL	LEA
	Lab. Number	97-1854-354	97-1855-355	AEL97003101	97-1860-360	97-1861-361	AEL97003102	97-1862-362
Constituent	Units							
Date Metals Analyzed	-			03/18/1997			03/18/1997	
Date Organics Analyzed	-	03/08/1997	03/08/1997	03/20/1997	03/10/1997	03/10/1997	03/20/1997	03/10/1997
Date Semi-volatile Organics Analyzed	-			04/04/1997				
Dinoseb	µg/kg							
Arsenic	mg/kg			<0.5			<0.47	
Barium	mg/kg			8.1			7.32	
Cadmium	mg/kg			<3.47			<3.54	
Chromium	mg/kg			<5.79			<5.91	
Lead	mg/kg			<23.1			<23.6	
Mercury	mg/kg			0.796			<0.09	
Nickel	mg/kg			<11.6			<11.8	
Selenium	mg/kg			<1.16			<1.18	
Silver	mg/kg			<5.79			<5.91	
Zinc	mg/kg			20.6			18.2	
Acetylamino fluorene, 2-	µg/kg							
Aramite	µg/kg							
Dimethoate	µg/kg							
Disulfoton	µg/kg							
Famphur	µg/kg							
Phorate	µg/kg							
Total Petroleum Hydrocarbons	mg/kg						<39.9	
Acenaphthene	µg/kg			<380				
Acenaphthylene	µg/kg			<380				
Acetophenone	µg/kg							
Aminobiphenyl, 4-	µg/kg							
Aniline	µg/kg							
Anthracene	µg/kg			<380				
Benzidine	µg/kg			<380				

Notes: 1. Printed on 05/05/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-260	NK-SB-260	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-261
	Sample ID	1027038	1027039	1027040	1027040	1027041	1027042	1027042
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	10:30	10:35	11:05	11:05	11:10	11:16	11:16
	Sample Depth	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'	4' - 6'	4' - 6'
	Laboratory	LEA	LEA	AEL	LEA	LEA	AEL	LEA
	Lab. Number	97-1854-354	97-1855-355	AEL97003101	97-1860-360	97-1861-361	AEL97003102	97-1862-362
Constituent	Units							
Benzo[a]anthracene	µg/kg			<380				
Benzo[a]pyrene	µg/kg			<380				
Benzo[b]fluoranthene	µg/kg			<380				
Benzo[ghi]perylene	µg/kg			<380				
Benzo[k]fluoranthene	µg/kg			<380				
Benzoic Acid	µg/kg							
Benzyl Alcohol	µg/kg							
Benzyl Butyl Phthalate	µg/kg			<380				
Bis(2-chloroethoxy)methane	µg/kg			<380				
Bis(2-chloroethyl) Ether	µg/kg			<380				
Bis(2-ethylhexyl) Phthalate	µg/kg			<380				
Bromophenyl Phenyl Ether, 4-	µg/kg			<380				
Butyl Benzyl Phthalate	µg/kg							
Carbazole	µg/kg							
Chloro-m-cresol, p-	µg/kg			<380				
Chloroaniline, 4-	µg/kg							
Chloronaphthalene, 2-	µg/kg			<380				
Chlorophenol, 2-	µg/kg			<380				
Chlorophenyl Phenyl Ether, 4-	µg/kg			<380				
Chrysene	µg/kg			<380				
Cresol, 2-	µg/kg							
Cresol, 3-	µg/kg							
Cresol, 4-	µg/kg							
Di-n-butyl Phthalate	µg/kg			870				
Di-n-octyl Phthalate	µg/kg			<380				
Dibenzo[a,h]anthracene	µg/kg			<380				
Dibenzofuran	µg/kg							
Dichlorobenzidine, 3,3'	µg/kg			<380				

Notes: 1. Printed on 03/05/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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Location ID	NK-SB-260	NK-SB-260	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-261
Sample ID	1027038	1027039	1027040	1027040	1027041	1027042	1027042	1027042
Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
Sample Time	10:30	10:35	11:05	11:05	11:10	11:16	11:16	11:16
Sample Depth	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'	4' - 6'	4' - 6'	4' - 6'
Laboratory	LEA	LEA	AEL	LEA	LEA	AEL	AEL	LEA
Lab. Number	97-1854-354	97-1855-355	AEL97003101	97-1860-360	97-1861-361	AEL97003102	97-1862-362	
Constituent	Units							
Dichlorophenol,2,4-	µg/kg			<380				
Diethyl Phthalate	µg/kg			<380				
Dimethyl Phthalate	µg/kg			<380				
Dimethylaminoazobenzene,4-	µg/kg							
Dimethylbenzidine,3,3'-	µg/kg							
Dimethylbenzo[a]anthracene,7,12-	µg/kg							
Dimethylphenethylamine,alpha,alpha-	µg/kg							
Dimethylphenol,2,4-	µg/kg			<380				
Dinitro-o-cresol,4,6-	µg/kg			<380				
Dinitrobenzene,1,3-	µg/kg							
Dinitrophenol,2,4-	µg/kg			<380				
Dinitrotoluene,2,4-	µg/kg			<380				
Dinitrotoluene,2,6-	µg/kg			<380				
Diphenylamine	µg/kg							
Diphenylhydrazine,1,2-	µg/kg			<380				
Ethyl Methanesulfonate	µg/kg							
Fluoranthene	µg/kg			<380				
Fluorene	µg/kg			<380				
Hexachlorobenzene	µg/kg			<380				
Hexachlorobutadiene	µg/kg			<380				
Hexachlorocyclopentadiene	µg/kg			<380				
Hexachloroethane	µg/kg			<380				
Hexachlorophene	µg/kg							
Hexachloropropylene	µg/kg							
Indeno(1,2,3-cd)pyrene	µg/kg			<380				
Isophorone	µg/kg			<380				
Isosafrole	µg/kg							
Methapyrilene	µg/kg							

Notes: 1. Printed on 05/05/98

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Table 3

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**SUMMARY OF ANALYTICAL RESULTS - SOIL  
P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-260	NK-SB-260	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-261
	Sample ID	1027038	1027039	1027040	1027040	1027041	1027042	1027042
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	10:30	10:35	11:05	11:05	11:10	11:16	11:16
	Sample Depth	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'	4' - 6'	4' - 6'
	Laboratory	LEA	LEA	AEL	LEA	LEA	AEL	LEA
	Lab. Number	97-1854-354	97-1855-355	AEL97003101	97-1860-360	97-1861-361	AEL97003102	97-1862-362
Constituent	Units							
Methyl Methanesulfonate	µg/kg							
Methylcholanthrene,3-	µg/kg							
Methylnaphthalene,2-	µg/kg							
N-nitroso-di-n-butylamine	µg/kg							
N-nitroso-n-propylamine	µg/kg			<380				
N-nitrosodiethylamine	µg/kg							
N-nitrosodimethylamine	µg/kg			<380				
N-nitrosodiphenylamine	µg/kg			<380				
N-nitrosomethylethylamine	µg/kg							
N-nitrosomorpholine	µg/kg							
N-nitrosopiperidine	µg/kg							
Naphthalene	µg/kg			<380				
Naphthoquinone,1,4-	µg/kg							
Naphthylamine,alpha-	µg/kg							
Naphthylamine,beta-	µg/kg							
Nitro-o-toluidine,5-	µg/kg							
Nitroaniline,2-	µg/kg							
Nitroaniline,3-	µg/kg							
Nitroaniline,4-	µg/kg							
Nitrobenzene	µg/kg			<380				
Nitrophenol,2-	µg/kg			<380				
Nitrophenol,4-	µg/kg			<380				
Nitroquinoline-1-oxide,4-	µg/kg							
Nitrosopyrrolidine,n-	µg/kg							
Pentachlorophenol	µg/kg			<380				
Phenacetin	µg/kg							
Phenanthrene	µg/kg			<380				
Phenol	µg/kg			<380				

Notes: 1. Printed on 05/05/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-260	NK-SB-260	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-261
	Sample ID	1027038	1027039	1027040	1027040	1027041	1027042	1027042
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	10:30	10:35	11:05	11:05	11:10	11:16	11:16
	Sample Depth	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'	4' - 6'	4' - 6'
	Laboratory	LEA	LEA	AEL	LEA	LEA	AEL	LEA
	Lab. Number	97-1854-354	97-1855-355	AEL97003101	97-1860-360	97-1861-361	AEL97003102	97-1862-362
Constituent	Units							
Phenylenediamine,1,4-	µg/kg							
Picoline,2-	µg/kg							
Pronamide	µg/kg							
Propane),2,2'-oxybis(1-chloro-	µg/kg			<380				
Propane),2,2'-oxybis(2-chloro-	µg/kg							
Pyrene	µg/kg			<380				
Pyridine	µg/kg							
Safrole	µg/kg							
Tetrachlorobenzene,1,2,4,5-	µg/kg							
Tetrachlorophenol,2,3,4,6-	µg/kg							
Toluidine,o-	µg/kg							
Trichlorobenzene,1,2,4-	µg/kg			<380				
Trichlorophenol,2,4,5-	µg/kg							
Trichlorophenol,2,4,6-	µg/kg			<380				
Triethyl Phosphorothioate,o,o,o-	µg/kg							
Trinitrobenzene,1,3,5-	µg/kg							
Acetone	µg/kg			<40			<25	
Acrolein	µg/kg			<20			<12	
Acrylonitrile	µg/kg			<20			<12	
Benzene	µg/kg			<8.0			<4.9	
Benzene (mobile)	µg/kg	<8	<8		<8	<8		<8
Bromobenzene	µg/kg			<8.0			<4.9	
Bromoform	µg/kg			<8.0			<4.9	
Carbon Disulfide	µg/kg			<8.0			<4.9	
Carbon Tetrachloride	µg/kg			<8.0			<4.9	
Chlorobenzene	µg/kg			<8.0			<4.9	
Chlorodibromomethane	µg/kg			<8.0			<4.9	
Chloroethane	µg/kg			<8.0			<4.9	

Notes: 1. Printed on 05/05/98

**LEA**

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-260	NK-SB-260	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-261
	Sample ID	1027038	1027039	1027040	1027040	1027041	1027042	1027042
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	10:30	10:35	11:05	11:05	11:10	11:16	11:16
	Sample Depth	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'	4' - 6'	4' - 6'
	Laboratory	LEA	LEA	AEL	LEA	LEA	AEL	LEA
	Lab. Number	97-1854-354	97-1855-355	AEL97003101	97-1860-360	97-1861-361	AEL97003102	97-1862-362
Constituent	Units							
Chloroethyl Vinyl Ether,2-	µg/kg			<8.0			<4.9	
Chloroform	µg/kg			<8.0			<4.9	
Chlorotoluene,o-	µg/kg			<8.0			<4.9	
Chlorotoluene,p-	µg/kg			<8.0			<4.9	
Dibromomethane	µg/kg			<8.0			<4.9	
Dichlorobenzene,1,2-	µg/kg			<8.0			<4.9	
Dichlorobenzene,1,3-	µg/kg			<8.0			<4.9	
Dichlorobenzene,1,4-	µg/kg			<8.0			<4.9	
Dichlorobromomethane	µg/kg			<8.0			<4.9	
Dichlorodifluoromethane	µg/kg			<8.0			<4.9	
Dichloroethane,1,1-	µg/kg			<8.0			<4.9	
Dichloroethane,1,2-	µg/kg			<8.0			<4.9	
Dichloroethylene,1,1-	µg/kg			<8.0			<4.9	
Dichloroethylene,1,2-cis-	µg/kg			<8.0			<4.9	
Dichloroethylene,1,2-trans-	µg/kg			<8.0			<4.9	
Dichloropropane,1,2-	µg/kg			<8.0			<4.9	
Dichloropropylene,1,3-cis-	µg/kg			<8.0			<4.9	
Dichloropropylene,1,3-trans-	µg/kg			<8.0			<4.9	
Ethylbenzene	µg/kg			<8.0			<4.9	
Ethylbenzene (mobile)	µg/kg	<17	<17		<17	<17		<17
Hexanone,2-	µg/kg			<20			<12	
Methyl Bromide	µg/kg			<8.0			<4.9	
Methyl Chloride	µg/kg			<8.0			<4.9	
Methyl Ethyl Ketone	µg/kg			<20			<12	
Methyl-2-pentanone,4-	µg/kg			<20			<12	
Methyl-tert-butyl Ether	µg/kg			<8.0			<4.9	
Methylene Chloride	µg/kg			<8.0			<9.8	
Pentachlorobenzene	µg/kg							

Notes: 1. Printed on 05/05/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-262
Sample ID	1027043	1027044	1027045	1027046	1027046	1027046	1027047	1027048
Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
Sample Time	11:19	11:30	11:35	13:50	13:50	13:50	13:55	14:10
Sample Depth	6' - 8'	8' - 10'	10' - 12'	0' - 2'	0' - 2'	0' - 2'	2' - 4'	4' - 6'
Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	LEA	AEL
Lab. Number	97-1863-363	97-1864-364	97-1865-365	AEL97003103	97-1866-366	97-1867-367	97-1867-367	AEL97003104
Constituent	Units							
Date Metals Analyzed	-				03/18/1997			03/18/1997
Date Organics Analyzed	-	03/10/1997	03/10/1997	03/10/1997	03/20/1997	03/10/1997	03/10/1997	03/20/1997
Date Semi-volatile Organics Analyzed	-				04/04/1997			
Dinoseb	µg/kg							
Arsenic	mg/kg				<0.47			<0.48
Barium	mg/kg				13.1			8.81
Cadmium	mg/kg				<3.52			<3.57
Chromium	mg/kg				8.45			<5.95
Lead	mg/kg				<23.5			<23.8
Mercury	mg/kg				0.174			<0.10
Nickel	mg/kg				<11.7			<11.9
Selenium	mg/kg				<1.17			<1.19
Silver	mg/kg				<5.87			<5.95
Zinc	mg/kg				48.1			11.7
Acetylaminofluorene,2-	µg/kg							
Aramite	µg/kg							
Dimethoate	µg/kg							
Disulfoton	µg/kg							
Famphur	µg/kg							
Phorate	µg/kg							
Total Petroleum Hydrocarbons	mg/kg				<39.5			<41.1
Acenaphthene	µg/kg				<390			
Acenaphthylene	µg/kg				<390			
Acetophenone	µg/kg							
Aminobiphenyl,4-	µg/kg							
Aniline	µg/kg							
Anthracene	µg/kg				<390			
Benzidine	µg/kg				<390			

Notes: 1. Printed on 05/05/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-262
	Sample ID	1027043	1027044	1027045	1027046	1027046	1027047	1027048
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	11:19	11:30	11:35	13:50	13:50	13:55	14:10
	Sample Depth	6' - 8'	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	AEL
	Lab. Number	97-1863-363	97-1864-364	97-1865-365	AEL97003103	97-1866-366	97-1867-367	AEL97003104
Constituent	Units							
Benzo[a]anthracene	µg/kg				<390 N1			
Benzo[a]pyrene	µg/kg				<390 N1			
Benzo[b]fluoranthene	µg/kg				<390 N1			
Benzo[ghi]perylene	µg/kg				<390 N1			
Benzo[k]fluoranthene	µg/kg				<390			
Benzoic Acid	µg/kg							
Benzyl Alcohol	µg/kg							
Benzyl Butyl Phthalate	µg/kg							
Bis(2-chloroethoxy)methane	µg/kg				<390			
Bis(2-chloroethyl) Ether	µg/kg				<390			
Bis(2-ethylhexyl) Phthalate	µg/kg				<390			
Bromophenyl Phenyl Ether,4-	µg/kg				<390			
Butyl Benzyl Phthalate	µg/kg				<390			
Carbazole	µg/kg							
Chloro-m-cresol,p-	µg/kg							
Chloroaniline,4-	µg/kg							
Chloronaphthalene,2-	µg/kg				<390			
Chlorophenol,2-	µg/kg				<390			
Chlorophenyl Phenyl Ether,4-	µg/kg				<390			
Chrysene	µg/kg				<390 N1			
Cresol,2-	µg/kg							
Cresol,3-	µg/kg							
Cresol,4-	µg/kg							
Di-n-butyl Phthalate	µg/kg				1000			
Di-n-octyl Phthalate	µg/kg				<390			
Dibenzo[a,h]anthracene	µg/kg				<390			
Dibenzofuran	µg/kg							
Dichlorobenzidine,3,3'-	µg/kg				<390			

Notes: 1. Printed on 03/03/98

**LEA**

Table 3

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**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-262
Sample ID	1027043	1027044	1027045	1027046	1027046	1027046	1027047	1027048
Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
Sample Time	11:19	11:30	11:35	13:50	13:50	13:50	13:55	14:10
Sample Depth	6' - 8'	8' - 10'	10' - 12'	0' - 2'	0' - 2'	0' - 2'	2' - 4'	4' - 6'
Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	LEA	AEL
Lab. Number	97-1863-363	97-1864-364	97-1865-365	AEL97003103	97-1866-366	97-1867-367	97-1867-367	AEL97003104
Constituent	Units							
Dichlorophenol,2,4-	µg/kg				<390			
Diethyl Phthalate	µg/kg				<390			
Dimethyl Phthalate	µg/kg				<390			
Dimethylaminoazobenzene,4-	µg/kg							
Dimethylbenzidine,3,3'-	µg/kg							
Dimethylbenzo[a]anthracene,7,12-	µg/kg							
Dimethylphenethylamine,alpha,alpha-	µg/kg							
Dimethylphenol,2,4-	µg/kg				<390			
Dinitro-o-cresol,4,6-	µg/kg				<390			
Dinitrobenzene,1,3-	µg/kg							
Dinitrophenol,2,4-	µg/kg				<390			
Dinitrotoluene,2,4-	µg/kg				<390			
Dinitrotoluene,2,6-	µg/kg				<390			
Diphenylamine	µg/kg							
Diphenylhydrazine,1,2-	µg/kg				<390			
Ethyl Methanesulfonate	µg/kg							
Fluoranthene	µg/kg				<390 N1			
Fluorene	µg/kg				<390			
Hexachlorobenzene	µg/kg				<390			
Hexachlorobutadiene	µg/kg				<390			
Hexachlorocyclopentadiene	µg/kg				<390			
Hexachloroethane	µg/kg				<390			
Hexachlorophene	µg/kg							
Hexachloropropylene	µg/kg							
Indeno(1,2,3-cd)pyrene	µg/kg				<390 N1			
Isophorone	µg/kg				<390			
Isosafrole	µg/kg							
Methapyrilene	µg/kg							

Notes: 1. Printed on 05/05/98

LEA

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-262
	Sample ID	1027043	1027044	1027045	1027046	1027046	1027047	1027048
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	11:19	11:30	11:35	13:50	13:50	13:55	14:10
	Sample Depth	6' - 8'	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	AEL
	Lab. Number	97-1863-363	97-1864-364	97-1865-365	AEL97003103	97-1866-366	97-1867-367	AEL97003104
Constituent	Units							
Methyl Methanesulfonate	µg/kg							
Methylcholanthrene,3-	µg/kg							
Methylnaphthalene,2-	µg/kg							
N-nitroso-di-n-butylamine	µg/kg							
N-nitroso-n-propylamine	µg/kg				<390			
N-nitrosodiethylamine	µg/kg							
N-nitrosodimethylamine	µg/kg				<390			
N-nitrosodiphenylamine	µg/kg				<390			
N-nitrosomethylethylamine	µg/kg							
N-nitrosomorpholine	µg/kg							
N-nitrosopiperidine	µg/kg							
Naphthalene	µg/kg				<390			
Naphthoquinone,1,4-	µg/kg							
Naphthylamine,alpha-	µg/kg							
Naphthylamine,beta-	µg/kg							
Nitro-o-toluidine,5-	µg/kg							
Nitroaniline,2-	µg/kg							
Nitroaniline,3-	µg/kg							
Nitroaniline,4-	µg/kg							
Nitrobenzene	µg/kg				<390			
Nitrophenol,2-	µg/kg				<390			
Nitrophenol,4-	µg/kg				<390			
Nitroquinoline-1-oxide,4-	µg/kg							
Nitrosopyrrolidine,n-	µg/kg							
Pentachlorophenol	µg/kg				<390			
Phenacetin	µg/kg							
Phenanthrene	µg/kg				<390 N1			
Phenol	µg/kg				<390			

Notes: 1. Printed on 05/05/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

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	Location ID	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-262
	Sample ID	1027043	1027044	1027045	1027046	1027046	1027047	1027048
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	11:19	11:30	11:35	13:50	13:50	13:55	14:10
	Sample Depth	6' - 8'	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	AEL
	Lab. Number	97-1863-363	97-1864-364	97-1865-365	AEL97003103	97-1866-366	97-1867-367	AEL97003104
Constituent	Units							
Phenylenediamine,1,4-	µg/kg							
Picoline,2-	µg/kg							
Pronamide	µg/kg							
Propane),2,2'-oxybis(1-chloro-	µg/kg							
Propane),2,2'-oxybis(2-chloro-	µg/kg				<390			
Pyrene	µg/kg				<390 N1			
Pyridine	µg/kg							
Safrole	µg/kg							
Tetrachlorobenzene,1,2,4,5-	µg/kg							
Tetrachlorophenol,2,3,4,6-	µg/kg							
Toluidine,o-	µg/kg							
Trichlorobenzene,1,2,4-	µg/kg				<390			
Trichlorophenol,2,4,5-	µg/kg							
Trichlorophenol,2,4,6-	µg/kg				<390			
Triethyl Phosphorothioate,o,o,o-	µg/kg							
Trinitrobenzene,1,3,5-	µg/kg							
Acetone	µg/kg				<30			<27
Acrolein	µg/kg				<15			<13
Acrylonitrile	µg/kg				<15			<13
Benzene	µg/kg				<6.0			<5.3
Benzene (mobile)	µg/kg	<8	<8	<8		<8	<8	
Bromobenzene	µg/kg				<6.0			<5.3
Bromoform	µg/kg				<6.0			<5.3
Carbon Disulfide	µg/kg				<6.0			<5.3
Carbon Tetrachloride	µg/kg				<6.0			<5.3
Chlorobenzene	µg/kg				<6.0			<5.3
Chlorodibromomethane	µg/kg				<6.0			<5.3
Chloroethane	µg/kg				<6.0			<5.3

Notes: 1. Printed on 05/05/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-261	NK-SB-261	NK-SB-261	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-262
	Sample ID	1027043	1027044	1027045	1027046	1027046	1027047	1027048
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	11:19	11:30	11:35	13:50	13:50	13:55	14:10
	Sample Depth	6' - 8'	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'	4' - 6'
	Laboratory	LEA	LEA	LEA	AEL	LEA	LEA	AEL
	Lab. Number	97-1863-363	97-1864-364	97-1865-365	AEL97003103	97-1866-366	97-1867-367	AEL97003104
Constituent	Units							
Chloroethyl Vinyl Ether,2-	µg/kg				<6.0			<5.3
Chloroform	µg/kg				<6.0			<5.3
Chlorotoluene,o-	µg/kg				<6.0			<5.3
Chlorotoluene,p-	µg/kg				<6.0			<5.3
Dibromomethane	µg/kg				<6.0			<5.3
Dichlorobenzene,1,2-	µg/kg				<6.0			<5.3
Dichlorobenzene,1,3-	µg/kg				<6.0			<5.3
Dichlorobenzene,1,4-	µg/kg				<6.0			<5.3
Dichlorobromomethane	µg/kg				<6.0			<5.3
Dichlorodifluoromethane	µg/kg				<6.0			<5.3
Dichloroethane,1,1-	µg/kg				<6.0			<5.3
Dichloroethane,1,2-	µg/kg				<6.0			<5.3
Dichloroethylene,1,1-	µg/kg				<6.0			<5.3
Dichloroethylene,1,2-cis-	µg/kg				<6.0			<5.3
Dichloroethylene,1,2-trans-	µg/kg				<6.0			<5.3
Dichloropropane,1,2-	µg/kg				<6.0			<5.3
Dichloropropylene,1,3-cis-	µg/kg				<6.0			<5.3
Dichloropropylene,1,3-trans-	µg/kg				<6.0			<5.3
Ethylbenzene	µg/kg				<6.0			<5.3
Ethylbenzene (mobile)	µg/kg	<17	<17	<17		<17	<17	
Hexanone,2-	µg/kg				<15			<13
Methyl Bromide	µg/kg				<6.0			<5.3
Methyl Chloride	µg/kg				<6.0			<5.3
Methyl Ethyl Ketone	µg/kg				<15			<13
Methyl-2-pentanone,4-	µg/kg				<15			<13
Methyl-tert-butyl Ether	µg/kg				<6.0			<5.3
Methylene Chloride	µg/kg				<11			<11
Pentachlorobenzene	µg/kg							

Notes: 1. Printed on 05/03/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-263	NK-SB-263	NK-SB-263
	Sample ID	1027048	1027049	1027050	1027051	1027052	1027052	1027053
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	14:10	14:15	14:30	14:35	15:45	15:45	15:50
	Sample Depth	4' - 6'	6' - 8'	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	97-1868-368	97-1869-369	97-1870-370	97-1871-371	AEL97003105	97-1872-372	97-1873-373
Constituent	Units							
Date Metals Analyzed	-					03/18/1997		
Date Organics Analyzed	-	03/10/1997	03/10/1997	03/10/1997	03/10/1997	03/20/1997	03/10/1997	03/10/1997
Date Semi-volatile Organics Analyzed	-					04/04/1997		
Dinoseb	µg/kg							
Arsenic	mg/kg					<0.47		
Barium	mg/kg					10		
Cadmium	mg/kg					<3.5		
Chromium	mg/kg					<5.83		
Lead	mg/kg					<23.3		
Mercury	mg/kg					<0.09		
Nickel	mg/kg					<11.7		
Selenium	mg/kg					<1.17		
Silver	mg/kg					<5.83		
Zinc	mg/kg					22.5		
Acetylaminofluorene,2-	µg/kg							
Aramite	µg/kg							
Dimethoate	µg/kg							
Disulfoton	µg/kg							
Famphur	µg/kg							
Phorate	µg/kg							
Total Petroleum Hydrocarbons	mg/kg					<39.6		
Acenaphthene	µg/kg					<390		
Acenaphthylene	µg/kg					<390		
Acetophenone	µg/kg							
Aminobiphenyl,4-	µg/kg							
Aniline	µg/kg							
Anthracene	µg/kg					<390		
Benzidine	µg/kg					<390		

Notes: 1. Printed on 05/05/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-263	NK-SB-263	NK-SB-263
	Sample ID	1027048	1027049	1027050	1027051	1027052	1027052	1027053
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	14:10	14:15	14:30	14:35	15:45	15:45	15:50
	Sample Depth	4' - 6'	6' - 8'	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	97-1868-368	97-1869-369	97-1870-370	97-1871-371	AEL97003105	97-1872-372	97-1873-373
Constituent	Units							
Benzo[a]anthracene	µg/kg					<390		
Benzo[a]pyrene	µg/kg					<390		
Benzo[b]fluoranthene	µg/kg					<390		
Benzo[ghi]perylene	µg/kg					<390		
Benzo[k]fluoranthene	µg/kg					<390		
Benzoic Acid	µg/kg							
Benzyl Alcohol	µg/kg							
Benzyl Butyl Phthalate	µg/kg							
Bis(2-chloroethoxy)methane	µg/kg					<390		
Bis(2-chloroethyl) Ether	µg/kg					<390		
Bis(2-ethylhexyl) Phthalate	µg/kg					<390		
Bromophenyl Phenyl Ether, 4-	µg/kg					<390		
Butyl Benzyl Phthalate	µg/kg					<390		
Carbazole	µg/kg							
Chloro-m-cresol,p-	µg/kg							
Chloroaniline, 4-	µg/kg							
Chloronaphthalene, 2-	µg/kg					<390		
Chlorophenol, 2-	µg/kg					<390		
Chlorophenyl Phenyl Ether, 4-	µg/kg					<390		
Chrysene	µg/kg					<390		
Cresol, 2-	µg/kg							
Cresol, 3-	µg/kg							
Cresol, 4-	µg/kg							
Di-n-butyl Phthalate	µg/kg					720		
Di-n-octyl Phthalate	µg/kg					<390		
Dibenzo[a,h]anthracene	µg/kg					<390		
Dibenzofuran	µg/kg							
Dichlorobenzidine, 3,3'-	µg/kg					<390		

Notes: 1. Printed on 05/05/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-263	NK-SB-263	NK-SB-263
	Sample ID	1027048	1027049	1027050	1027051	1027052	1027052	1027053
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	14:10	14:15	14:30	14:35	15:45	15:45	15:50
	Sample Depth	4' - 6'	6' - 8'	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	97-1868-368	97-1869-369	97-1870-370	97-1871-371	AEL97003105	97-1872-372	97-1873-373
Constituent	Units							
Dichlorophenol,2,4-	µg/kg					<390		
Diethyl Phthalate	µg/kg					<390		
Dimethyl Phthalate	µg/kg					<390		
Dimethylaminoazobenzene,4-	µg/kg							
Dimethylbenzidine,3,3'-	µg/kg							
Dimethylbenzo[a]anthracene,7,12-	µg/kg							
Dimethylphenethylamine,alpha,alpha-	µg/kg							
Dimethylphenol,2,4-	µg/kg					<390		
Dinitro-o-cresol,4,6-	µg/kg					<390		
Dinitrobenzene,1,3-	µg/kg							
Dinitrophenol,2,4-	µg/kg					<390		
Dinitrotoluene,2,4-	µg/kg					<390		
Dinitrotoluene,2,6-	µg/kg					<390		
Diphenylamine	µg/kg							
Diphenylhydrazine,1,2-	µg/kg					<390		
Ethyl Methanesulfonate	µg/kg							
Fluoranthene	µg/kg					<390		
Fluorene	µg/kg					<390		
Hexachlorobenzene	µg/kg					<390		
Hexachlorobutadiene	µg/kg					<390		
Hexachlorocyclopentadiene	µg/kg					<390		
Hexachloroethane	µg/kg					<390		
Hexachlorophene	µg/kg							
Hexachloropropylene	µg/kg							
Indeno(1,2,3-cd)pyrene	µg/kg					<390		
Isophorone	µg/kg					<390		
Isosafrole	µg/kg							
Methapyrilene	µg/kg							

Notes: 1. Printed on 05/05/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-263	NK-SB-263	NK-SB-263
	Sample ID	1027048	1027049	1027050	1027051	1027052	1027052	1027053
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	14:10	14:15	14:30	14:35	15:45	15:45	15:50
	Sample Depth	4' - 6'	6' - 8'	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	97-1868-368	97-1869-369	97-1870-370	97-1871-371	AEL97003105	97-1872-372	97-1873-373
Constituent	Units							
Methyl Methanesulfonate	µg/kg							
Methylcholanthrene,3-	µg/kg							
Methylnaphthalene,2-	µg/kg							
N-nitroso-di-n-butylamine	µg/kg							
N-nitroso-n-propylamine	µg/kg					<390		
N-nitrosodiethylamine	µg/kg							
N-nitrosodimethylamine	µg/kg					<390		
N-nitrosodiphenylamine	µg/kg					<390		
N-nitrosomethylethylamine	µg/kg							
N-nitrosomorpholine	µg/kg							
N-nitrosopiperidine	µg/kg							
Naphthalene	µg/kg					<390		
Naphthoquinone,1,4-	µg/kg							
Naphthylamine,alpha-	µg/kg							
Naphthylamine,beta-	µg/kg							
Nitro-o-toluidine,5-	µg/kg							
Nitroaniline,2-	µg/kg							
Nitroaniline,3-	µg/kg							
Nitroaniline,4-	µg/kg							
Nitrobenzene	µg/kg					<390		
Nitrophenol,2-	µg/kg					<390		
Nitrophenol,4-	µg/kg					<390		
Nitroquinoline-1-oxide,4-	µg/kg							
Nitrosopyrrolidine,n-	µg/kg							
Pentachlorophenol	µg/kg					<390		
Phenacetin	µg/kg							
Phenanthrene	µg/kg					<390		
Phenol	µg/kg					<390		

Notes: 1. Printed on 05/05/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-263	NK-SB-263	NK-SB-263
	Sample ID	1027048	1027049	1027050	1027051	1027052	1027052	1027053
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	14:10	14:15	14:30	14:35	15:45	15:45	15:50
	Sample Depth	4' - 6'	6' - 8'	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	97-1868-368	97-1869-369	97-1870-370	97-1871-371	AEL97003105	97-1872-372	97-1873-373
Constituent	Units							
Phenylenediamine,1,4-	µg/kg							
Picoline,2-	µg/kg							
Pronamide	µg/kg							
Propane),2,2'-oxybis(1-chloro-	µg/kg							
Propane),2,2'-oxybis(2-chloro-	µg/kg					<390		
Pyrene	µg/kg					<390		
Pyridine	µg/kg							
Safrole	µg/kg							
Tetrachlorobenzene,1,2,4,5-	µg/kg							
Tetrachlorophenol,2,3,4,6-	µg/kg							
Toluidine,o-	µg/kg							
Trichlorobenzene,1,2,4-	µg/kg					<390		
Trichlorophenol,2,4,5-	µg/kg							
Trichlorophenol,2,4,6-	µg/kg					<390		
Triethyl Phosphorothioate,o,o,o-	µg/kg							
Trinitrobenzene,1,3,5-	µg/kg							
Acetone	µg/kg					<26		
Acrolein	µg/kg					<13		
Acrylonitrile	µg/kg					<13		
Benzene	µg/kg					<5.3		
Benzene (mobile)	µg/kg	<8	<8	<7	<8		<8	<8
Bromobenzene	µg/kg					<5.3		
Bromoform	µg/kg					<5.3		
Carbon Disulfide	µg/kg					<5.3		
Carbon Tetrachloride	µg/kg					<5.3		
Chlorobenzene	µg/kg					<5.3		
Chlorodibromomethane	µg/kg					<5.3		
Chloroethane	µg/kg					<5.3		

Notes: 1. Printed on 05/05/98

Table 3

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**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-262	NK-SB-263	NK-SB-263	NK-SB-263
	Sample ID	1027048	1027049	1027050	1027051	1027052	1027052	1027053
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997
	Sample Time	14:10	14:15	14:30	14:35	15:45	15:45	15:50
	Sample Depth	4' - 6'	6' - 8'	8' - 10'	10' - 12'	0' - 2'	0' - 2'	2' - 4'
	Laboratory	LEA	LEA	LEA	LEA	AEL	LEA	LEA
	Lab. Number	97-1868-368	97-1869-369	97-1870-370	97-1871-371	AEL97003105	97-1872-372	97-1873-373
Constituent	Units							
Chloroethyl Vinyl Ether,2-	µg/kg					<5.3		
Chloroform	µg/kg					<5.3		
Chlorotoluene,o-	µg/kg					<5.3		
Chlorotoluene,p-	µg/kg					<5.3		
Dibromomethane	µg/kg					<5.3		
Dichlorobenzene, 1,2-	µg/kg					<5.3		
Dichlorobenzene, 1,3-	µg/kg					<5.3		
Dichlorobenzene, 1,4-	µg/kg					<5.3		
Dichlorobromomethane	µg/kg					<5.3		
Dichlorodifluoromethane	µg/kg					<5.3		
Dichloroethane, 1,1-	µg/kg					<5.3		
Dichloroethane, 1,2-	µg/kg					<5.3		
Dichloroethylene, 1,1-	µg/kg					<5.3		
Dichloroethylene, 1,2-cis-	µg/kg					<5.3		
Dichloroethylene, 1,2-trans-	µg/kg					<5.3		
Dichloropropane, 1,2-	µg/kg					<5.3		
Dichloropropylene, 1,3-cis-	µg/kg					<5.3		
Dichloropropylene, 1,3-trans-	µg/kg					<5.3		
Ethylbenzene	µg/kg					<5.3		
Ethylbenzene (mobile)	µg/kg	<17	<17	<14	<18		<17	<17
Hexanone,2-	µg/kg					<13		
Methyl Bromide	µg/kg					<5.3		
Methyl Chloride	µg/kg					<5.3		
Methyl Ethyl Ketone	µg/kg					<13		
Methyl-2-pentanone,4-	µg/kg					<13		
Methyl-tert-butyl Ether	µg/kg					<5.3		
Methylene Chloride	µg/kg					<11		
Pentachlorobenzene	µg/kg							

Notes: 1. Printed on 05/05/98

LEA



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-293	NK-SB-293
	Sample ID	1027054	1027054	1027055	1027056	1027057	1634105	1634106
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	05/22/1997	05/22/1997
	Sample Time	15:55	15:55	15:59	16:02	16:05	13:00	13:05
	Sample Depth	4' - 6'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	0' - 2'	2' - 4'
	Laboratory	AEL	LEA	LEA	LEA	LEA	QUAN	QUAN
	Lab. Number	AEL97003106	97-1874-374	97-1876-379	97-1877-380	97-1878-381	A7E270119002	A7E270119003
Constituent	Units							
Date Metals Analyzed	-	03/18/1997						
Date Organics Analyzed	-	03/20/1997	03/10/1997	03/10/1997	03/10/1997	03/10/1997		
Date Semi-volatile Organics Analyzed	-						06/06/1997	06/06/1997
Dinoseb	µg/kg						<420 U	<390 U
Arsenic	mg/kg	<0.44						
Barium	mg/kg	8.95						
Cadmium	mg/kg	<3.31						
Chromium	mg/kg	<5.52						
Lead	mg/kg	<22.1						
Mercury	mg/kg	<0.09						
Nickel	mg/kg	<11						
Selenium	mg/kg	<1.1						
Silver	mg/kg	<5.52						
Zinc	mg/kg	13.5						
Acetylaminofluorene,2-	µg/kg						<420 U	<390 U
Aramite	µg/kg						<420 U	<390 U
Dimethoate	µg/kg						<420 U	<390 U
Disulfoton	µg/kg						<420 U	<390 U
Famphur	µg/kg						<420 U j	<390 U j
Phorate	µg/kg						<420 U	<390 U
Total Petroleum Hydrocarbons	mg/kg	<38.9						
Acenaphthene	µg/kg						<420 U	<390 U
Acenaphthylene	µg/kg						<420 U	<390 U
Acetophenone	µg/kg						<420 U	<390 U
Aminobiphenyl,4-	µg/kg						<420 U	<390 U
Aniline	µg/kg						<420 U	<390 U
Anthracene	µg/kg						<420 U	<390 U
Benzidine	µg/kg							

Notes: 1. Printed on 05/05/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-293	NK-SB-293
	Sample ID	1027054	1027054	1027055	1027056	1027057	1634105	1634106
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	05/22/1997	05/22/1997
	Sample Time	15:55	15:55	15:59	16:02	16:05	13:00	13:05
	Sample Depth	4' - 6'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	0' - 2'	2' - 4'
	Laboratory	AEL	LEA	LEA	LEA	LEA	QUAN	QUAN
	Lab. Number	AEL97003106	97-1874-374	97-1876-379	97-1877-380	97-1878-381	A7E270119002	A7E270119003
<b>Constituent</b>	<b>Units</b>							
Benzo[a]anthracene	µg/kg						<420 U	<390 U
Benzo[a]pyrene	µg/kg						<420 U	<390 U
Benzo[b]fluoranthene	µg/kg						<420 U	<390 U
Benzo[ghi]perylene	µg/kg						<420 U	<390 U
Benzo[k]fluoranthene	µg/kg						<420 U	<390 U
Benzoic Acid	µg/kg						<420 Uj	<390 Uj
Benzyl Alcohol	µg/kg						<840 U	<800 U
Benzyl Butyl Phthalate	µg/kg							
Bis(2-chloroethoxy)methane	µg/kg						<420 U	<390 U
Bis(2-chloroethyl) Ether	µg/kg						<420 U	<390 U
Bis(2-ethylhexyl) Phthalate	µg/kg						<420 U	<390 U
Bromophenyl Phenyl Ether,4-	µg/kg						<420 U	<390 U
Butyl Benzyl Phthalate	µg/kg						<420 U	<390 U
Carbazole	µg/kg						<420 U	<390 U
Chloro-m-cresol,p-	µg/kg						<840 U	<800 U
Chloroaniline,4-	µg/kg						<420 U	<390 U
Chloronaphthalene,2-	µg/kg						<420 U	<390 U
Chlorophenol,2-	µg/kg						<420 U	<390 U
Chlorophenyl Phenyl Ether,4-	µg/kg						<420 U	<390 U
Chrysene	µg/kg						<420 U	<390 U
Cresol,2-	µg/kg						<420 U	<390 U
Cresol,3-	µg/kg						<420 U	<390 U
Cresol,4-	µg/kg						<420 U	<390 U
Di-n-butyl Phthalate	µg/kg						<420 U	<390 U
Di-n-octyl Phthalate	µg/kg						<420 U	<390 U
Dibenzo[a,h]anthracene	µg/kg						<420 U	<390 U
Dibenzofuran	µg/kg						<420 U	<390 U
Dichlorobenzidine,3,3'-	µg/kg						<840 U	<800 U

Notes: 1. Printed on 05/05/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-293	NK-SB-293
	Sample ID	1027054	1027054	1027055	1027056	1027057	1634105	1634106
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	05/22/1997	05/22/1997
	Sample Time	15:55	15:55	15:59	16:02	16:05	13:00	13:05
	Sample Depth	4' - 6'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	0' - 2'	2' - 4'
	Laboratory	AEL	LEA	LEA	LEA	LEA	QUAN	QUAN
	Lab. Number	AEL97003106	97-1874-374	97-1876-379	97-1877-380	97-1878-381	A7E270119002	A7E270119003
<b>Constituent</b>	<b>Units</b>							
Dichlorophenol,2,4-	µg/kg						<420 U	<390 U
Diethyl Phthalate	µg/kg						<420 U	<390 U
Dimethyl Phthalate	µg/kg						<420 U	<390 U
Dimethylaminoazobenzene,4-	µg/kg						<420 U	<390 U
Dimethylbenzidine,3,3'-	µg/kg						<420 U	<390 U
Dimethylbenzo[a]anthracene,7,12-	µg/kg						<420 U	<390 U
Dimethylphenethylamine,alpha,alpha-	µg/kg						<420 U	<390 U
Dimethylphenol,2,4-	µg/kg						<420 U	<390 U
Dinitro-o-cresol,4,6-	µg/kg						<1000 U	<990 U
Dinitrobenzene,1,3-	µg/kg						<420 U	<390 U
Dinitrophenol,2,4-	µg/kg						<1000 U	<990 U
Dinitrotoluene,2,4-	µg/kg						<420 U	<390 U
Dinitrotoluene,2,6-	µg/kg						<420 U	<390 U
Diphenylamine	µg/kg						<420 U	<390 U
Diphenylhydrazine,1,2-	µg/kg							
Ethyl Methanesulfonate	µg/kg						<420 U	<390 U
Fluoranthene	µg/kg						<420 U	<390 U
Fluorene	µg/kg						<420 U	<390 U
Hexachlorobenzene	µg/kg						<420 U	<390 U
Hexachlorobutadiene	µg/kg						<420 U	<390 U
Hexachlorocyclopentadiene	µg/kg						<420 U	<390 U
Hexachloroethane	µg/kg						<420 U	<390 U
Hexachlorophene	µg/kg						<420 U	<390 U
Hexachloropropylene	µg/kg						<420 U	<390 U
Indeno(1,2,3-cd)pyrene	µg/kg						<420 U	<390 U
Isophorone	µg/kg						<420 U	<390 U
Isosafrole	µg/kg						<420 U	<390 U
Methapyrilene	µg/kg						<420 U	<390 U

Notes: 1. Printed on 05/05/98



**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-293	NK-SB-293
	Sample ID	1027054	1027054	1027055	1027056	1027057	1634105	1634106
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	05/22/1997	05/22/1997
	Sample Time	15:55	15:55	15:59	16:02	16:05	13:00	13:05
	Sample Depth	4' - 6'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	0' - 2'	2' - 4'
	Laboratory	AEL	LEA	LEA	LEA	LEA	QUAN	QUAN
	Lab. Number	AEL97003106	97-1874-374	97-1876-379	97-1877-380	97-1878-381	A7E270119002	A7E270119003
Constituent	Units							
Methyl Methanesulfonate	µg/kg						<420 U	<390 U
Methylcholanthrene,3-	µg/kg						<830 U	<790 U
Methylnaphthalene,2-	µg/kg						<420 U	<390 U
N-nitroso-di-n-butylamine	µg/kg						<420 U	<390 U
N-nitroso-n-propylamine	µg/kg						<420 U	<390 U
N-nitrosodiethylamine	µg/kg						<420 U	<390 U
N-nitrosodimethylamine	µg/kg						<420 U	<390 U
N-nitrosodiphenylamine	µg/kg						<420 U	<390 U
N-nitrosomethylethylamine	µg/kg						<420 U	<390 U
N-nitrosomorpholine	µg/kg						<420 U	<390 U
N-nitrosopiperidine	µg/kg						<420 U	<390 U
Naphthalene	µg/kg						<420 U	<390 U
Naphthoquinone, 1,4-	µg/kg						<420 U	<390 U
Naphthylamine, alpha-	µg/kg						<420 U	<390 U
Naphthylamine, beta-	µg/kg						<420 U	<390 U
Nitro-o-toluidine,5-	µg/kg						<420 U	<390 U
Nitroaniline,2-	µg/kg						<1000 U	<990 U
Nitroaniline,3-	µg/kg						<1000 U	<990 U
Nitroaniline,4-	µg/kg						<1000 U	<990 U
Nitrobenzene	µg/kg						<420 U	<390 U
Nitrophenol,2-	µg/kg						<420 U	<390 U
Nitrophenol,4-	µg/kg						<1000 U	<990 U
Nitroquinoline-1-oxide,4-	µg/kg						<420 U	<390 U
Nitrosopyrrolidine,n-	µg/kg						<420 U	<390 U
Pentachlorophenol	µg/kg						<1000 U	<990 U
Phenacetin	µg/kg						<420 U	<390 U
Phenanthrene	µg/kg						<420 U	<390 U
Phenol	µg/kg						<420 U	<390 U

Notes: 1. Printed on 05/05/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-293	NK-SB-293
Sample ID	1027054	1027054	1027054	1027055	1027056	1027057	1634105	1634106
Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	05/22/1997	05/22/1997
Sample Time	15:55	15:55	15:55	15:59	16:02	16:05	13:00	13:05
Sample Depth	4' - 6'	4' - 6'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	0' - 2'	2' - 4'
Laboratory	AEL	LEA	LEA	LEA	LEA	LEA	QUAN	QUAN
Lab. Number	AEL97003106	97-1874-374	97-1874-374	97-1876-379	97-1877-380	97-1878-381	A7E270119002	A7E270119003
Constituent	Units							
Phenylenediamine, 1,4-	µg/kg						<420 U	<390 U
Picoline, 2-	µg/kg						<420 U	<390 U
Pronamide	µg/kg						<420 U	<390 U
Propane), 2,2'-oxybis(1-chloro-	µg/kg						<420 U	<390 U
Propane), 2,2'-oxybis(2-chloro-	µg/kg							
Pyrene	µg/kg						<420 U	<390 U
Pyridine	µg/kg						<420 U	<390 U
Safrole	µg/kg						<420 U	<390 U
Tetrachlorobenzene, 1,2,4,5-	µg/kg						<420 U	<390 U
Tetrachlorophenol, 2,3,4,6-	µg/kg						<420 U	<390 U
Toluidine, o-	µg/kg						<420 U	<390 U
Trichlorobenzene, 1,2,4-	µg/kg						<420 U	<390 U
Trichlorophenol, 2,4,5-	µg/kg						<420 U	<390 U
Trichlorophenol, 2,4,6-	µg/kg						<420 U	<390 U
Triethyl Phosphorothioate, o,o,o-	µg/kg						<420 U	<390 U
Trinitrobenzene, 1,3,5-	µg/kg						<420 U <sub>r</sub>	<390 U
Acetone	µg/kg	<26						
Acrolein	µg/kg	<13						
Acrylonitrile	µg/kg	<13						
Benzene	µg/kg	<5.1						
Benzene (mobile)	µg/kg		<8	<8	<8	<8		
Bromobenzene	µg/kg	<5.1						
Bromoform	µg/kg	<5.1						
Carbon Disulfide	µg/kg	<5.1						
Carbon Tetrachloride	µg/kg	<5.1						
Chlorobenzene	µg/kg	<5.1						
Chlorodibromomethane	µg/kg	<5.1						
Chloroethane	µg/kg	<5.1						

Notes: 1. Printed on 05/05/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-263	NK-SB-293	NK-SB-293
	Sample ID	1027054	1027054	1027055	1027056	1027057	1634105	1634106
	Sample Date	03/06/1997	03/06/1997	03/06/1997	03/06/1997	03/06/1997	05/22/1997	05/22/1997
	Sample Time	15:55	15:55	15:59	16:02	16:05	13:00	13:05
	Sample Depth	4' - 6'	4' - 6'	6' - 8'	8' - 10'	10' - 12'	0' - 2'	2' - 4'
	Laboratory	AEL	LEA	LEA	LEA	LEA	QUAN	QUAN
	Lab. Number	AEL97003106	97-1874-374	97-1876-379	97-1877-380	97-1878-381	A7E270119002	A7E270119003
Constituent	Units							
Chloroethyl Vinyl Ether,2-	µg/kg	<5.1						
Chloroform	µg/kg	<5.1						
Chlorotoluene,o-	µg/kg	<5.1						
Chlorotoluene,p-	µg/kg	<5.1						
Dibromomethane	µg/kg	<5.1						
Dichlorobenzene,1,2-	µg/kg	<5.1					<420 U	<390 U
Dichlorobenzene,1,3-	µg/kg	<5.1					<420 U	<390 U
Dichlorobenzene,1,4-	µg/kg	<5.1					<420 U	<390 U
Dichlorobromomethane	µg/kg	<5.1						
Dichlorodifluoromethane	µg/kg	<5.1						
Dichloroethane,1,1-	µg/kg	<5.1						
Dichloroethane,1,2-	µg/kg	<5.1						
Dichloroethylene,1,1-	µg/kg	<5.1						
Dichloroethylene,1,2-cis-	µg/kg	<5.1						
Dichloroethylene,1,2-trans-	µg/kg	<5.1						
Dichloropropane,1,2-	µg/kg	<5.1						
Dichloropropylene,1,3-cis-	µg/kg	<5.1						
Dichloropropylene,1,3-trans-	µg/kg	<5.1						
Ethylbenzene	µg/kg	<5.1						
Ethylbenzene (mobile)	µg/kg		<17	<17	<17	<17		
Hexanone,2-	µg/kg	<13						
Methyl Bromide	µg/kg	<5.1						
Methyl Chloride	µg/kg	<5.1						
Methyl Ethyl Ketone	µg/kg	<13						
Methyl-2-pentanone,4-	µg/kg	<13						
Methyl-tert-butyl Ether	µg/kg	<5.1						
Methylene Chloride	µg/kg	<7.7						
Pentachlorobenzene	µg/kg						<420 U	<390 U

Notes: 1. Printed on 05/05/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

Location ID	NK-SB-294	NK-SB-294	NK-SB-295	NK-SB-295	NK-SB-296	NK-SB-296	NK-SB-297	NK-SB-297
Sample ID	1634107	1634108	1634092	1634093	1634094	1634095	1634096	1634096
Sample Date	05/22/1997	05/22/1997	05/20/1997	05/20/1997	05/20/1997	05/20/1997	05/20/1997	05/20/1997
Sample Time	13:30	13:35	12:15	12:20	12:40	12:40	12:40	13:00
Sample Depth	0' - 2'	2' - 4'	0' - 2'	2' - 4'	0' - 2'	2' - 4'	0' - 2'	0' - 2'
Laboratory	QUAN							
Lab. Number	A7E270119004	A7E270119005	A7E220184001	A7E220184002	A7E220184003	A7E220184004	A7E220184005	A7E220184005
Constituent	Units							
Date Metals Analyzed	-							
Date Organics Analyzed	-							
Date Semi-volatile Organics Analyzed	-	06/06/1997	06/06/1997	06/05/1997	06/05/1997	06/05/1997	06/05/1997	06/05/1997
Dinoseb	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Arsenic	mg/kg							
Barium	mg/kg							
Cadmium	mg/kg							
Chromium	mg/kg							
Lead	mg/kg							
Mercury	mg/kg							
Nickel	mg/kg							
Selenium	mg/kg							
Silver	mg/kg							
Zinc	mg/kg							
Acetylaminofluorene,2-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Aramite	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Dimethoate	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Disulfoton	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Famphur	µg/kg	<390 U j	<380 U j	<380 U j	<410 U j	<390 U j	<410 U j	<420 U j
Phorate	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Total Petroleum Hydrocarbons	mg/kg							
Acenaphthene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Acenaphthylene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Acetophenone	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Aminobiphenyl,4-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Aniline	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Anthracene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Benzidine	µg/kg							

Notes: 1. Printed on 05/05/98

Table 3

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**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-294	NK-SB-294	NK-SB-295	NK-SB-295	NK-SB-296	NK-SB-296	NK-SB-297
Sample ID	1634107	1634108	1634108	1634092	1634093	1634094	1634095	1634096
Sample Date	05/22/1997	05/22/1997	05/22/1997	05/20/1997	05/20/1997	05/20/1997	05/20/1997	05/20/1997
Sample Time	13:30	13:35	13:35	12:15	12:20	12:40	12:40	13:00
Sample Depth	0' - 2'	2' - 4'	2' - 4'	0' - 2'	2' - 4'	0' - 2'	2' - 4'	0' - 2'
Laboratory	QUAN							
Lab. Number	A7E270119004	A7E270119005	A7E270119005	A7E220184001	A7E220184002	A7E220184003	A7E220184004	A7E220184005
Constituent	Units							
Benzo[a]anthracene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Benzo[a]pyrene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Benzo[b]fluoranthene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Benzo[ghi]perylene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Benzo[k]fluoranthene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Benzoic Acid	µg/kg	<390 U j	<380 U j	<380 U	<410 U	<390 U	<410 U	<420 U
Benzyl Alcohol	µg/kg	<800 U	<770 U	<780 U	<820 U	<800 U	<830 U	<860 U
Benzyl Butyl Phthalate	µg/kg							
Bis(2-chloroethoxy)methane	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Bis(2-chloroethyl) Ether	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Bis(2-ethylhexyl) Phthalate	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Bromophenyl Phenyl Ether,4-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Butyl Benzyl Phthalate	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Carbazole	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Chloro-m-cresol,p-	µg/kg	<800 U	<770 U	<780 U	<820 U	<800 U	<830 U	<860 U
Chloroaniline,4-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Chloronaphthalene,2-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Chlorophenol,2-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Chlorophenyl Phenyl Ether,4-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Chrysene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Cresol,2-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Cresol,3-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Cresol,4-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Di-n-butyl Phthalate	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Di-n-octyl Phthalate	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Dibenzo[a,h]anthracene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Dibenzofuran	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Dichlorobenzidine,3,3'-	µg/kg	<800 U	<770 U	<780 U	<820 U	<800 U	<830 U	<860 U

Notes: 1. Printed on 05/05/98

LEA

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-294	NK-SB-294	NK-SB-295	NK-SB-295	NK-SB-296	NK-SB-296	NK-SB-297
	Sample ID	1634107	1634108	1634092	1634093	1634094	1634095	1634096
	Sample Date	05/22/1997	05/22/1997	05/20/1997	05/20/1997	05/20/1997	05/20/1997	05/20/1997
	Sample Time	13:30	13:35	12:15	12:20	12:40	12:40	13:00
	Sample Depth	0' - 2'	2' - 4'	0' - 2'	2' - 4'	0' - 2'	2' - 4'	0' - 2'
	Laboratory	QUAN						
	Lab. Number	A7E270119004	A7E270119005	A7E220184001	A7E220184002	A7E220184003	A7E220184004	A7E220184005
Constituent	Units							
Dichlorophenol,2,4-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Diethyl Phthalate	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Dimethyl Phthalate	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Dimethylaminoazobenzene,4-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Dimethylbenzidine,3,3'-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Dimethylbenzo[a]anthracene,7,12-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Dimethylphenethylamine,alpha,alpha-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Dimethylphenol,2,4-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Dinitro-o-cresol,4,6-	µg/kg	<990 U	<960 U	<960 U	<1000 U	<990 U	<1000 U	<1100 U
Dinitrobenzene,1,3-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Dinitrophenol,2,4-	µg/kg	<990 U	<960 U	<960 U	<1000 U	<990 U	<1000 U	<1100 U
Dinitrotoluene,2,4-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Dinitrotoluene,2,6-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Diphenylamine	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Diphenylhydrazine,1,2-	µg/kg							
Ethyl Methanesulfonate	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Fluoranthene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Fluorene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Hexachlorobenzene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Hexachlorobutadiene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Hexachlorocyclopentadiene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Hexachloroethane	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Hexachlorophene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Hexachloropropylene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Indeno(1,2,3-cd)pyrene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Isophorone	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Isosafrole	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Methapyrilene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U

Notes: 1. Printed on 05/05/98

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**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-294	NK-SB-294	NK-SB-295	NK-SB-295	NK-SB-296	NK-SB-296	NK-SB-297
	Sample ID	1634107	1634108	1634092	1634093	1634094	1634095	1634096
	Sample Date	05/22/1997	05/22/1997	05/20/1997	05/20/1997	05/20/1997	05/20/1997	05/20/1997
	Sample Time	13:30	13:35	12:15	12:20	12:40	12:40	13:00
	Sample Depth	0' - 2'	2' - 4'	0' - 2'	2' - 4'	0' - 2'	2' - 4'	0' - 2'
	Laboratory	QUAN						
	Lab. Number	A7E270119004	A7E270119005	A7E220184001	A7E220184002	A7E220184003	A7E220184004	A7E220184005
Constituent	Units							
Methyl Methanesulfonate	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Methylcholanthrene,3-	µg/kg	<790 U	<760 U	<760 U	<810 U	<790 U	<820 U	<850 U
Methylnaphthalene,2-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
N-nitroso-di-n-butylamine	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
N-nitroso-n-propylamine	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
N-nitrosodiethylamine	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
N-nitrosodimethylamine	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
N-nitrosodiphenylamine	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
N-nitrosomethylethylamine	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
N-nitrosomorpholine	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
N-nitrosopiperidine	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Naphthalene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Naphthoquinone,1,4-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Naphthylamine,alpha-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Naphthylamine,beta-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Nitro-o-toluidine,5-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Nitroaniline,2-	µg/kg	<990 U	<960 U	<960 U	<1000 U	<990 U	<1000 U	<1100 U
Nitroaniline,3-	µg/kg	<990 U	<960 U	<960 U	<1000 U	<990 U	<1000 U	<1100 U
Nitroaniline,4-	µg/kg	<990 U	<960 U	<960 U	<1000 U	<990 U	<1000 U	<1100 U
Nitrobenzene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Nitrophenol,2-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Nitrophenol,4-	µg/kg	<990 U	<960 U	<960 U	<1000 U	<990 U	<1000 U	<1100 U
Nitroquinoline-1-oxide,4-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Nitrosopyrrolidine,n-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Pentachlorophenol	µg/kg	<990 U	<960 U	<960 U	<1000 U	<990 U	<1000 U	<1100 U
Phenacetin	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Phenanthrene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Phenol	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U

Notes: 1. Printed on 05/05/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-294	NK-SB-294	NK-SB-295	NK-SB-295	NK-SB-296	NK-SB-296	NK-SB-297
Sample ID	1634107	1634108	1634108	1634092	1634093	1634094	1634095	1634096
Sample Date	05/22/1997	05/22/1997	05/22/1997	05/20/1997	05/20/1997	05/20/1997	05/20/1997	05/20/1997
Sample Time	13:30	13:35	13:35	12:15	12:20	12:40	12:40	13:00
Sample Depth	0' - 2'	2' - 4'	2' - 4'	0' - 2'	2' - 4'	0' - 2'	2' - 4'	0' - 2'
Laboratory	QUAN							
Lab. Number	A7E270119004	A7E270119005	A7E270119005	A7E220184001	A7E220184002	A7E220184003	A7E220184004	A7E220184005
Constituent	Units							
Phenylenediamine,1,4-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Picoline,2-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Pronamide	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Propane),2,2'-oxybis(1-chloro-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Propane),2,2'-oxybis(2-chloro-	µg/kg							
Pyrene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Pyridine	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Safrole	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Tetrachlorobenzene,1,2,4,5-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Tetrachlorophenol,2,3,4,6-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Toluidine,o-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Trichlorobenzene,1,2,4-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Trichlorophenol,2,4,5-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Trichlorophenol,2,4,6-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Triethyl Phosphorothioate,o,o,o-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Trinitrobenzene,1,3,5-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U	<420 U
Acetone	µg/kg							
Acrolein	µg/kg							
Acrylonitrile	µg/kg							
Benzene	µg/kg							
Benzene (mobile)	µg/kg							
Bromobenzene	µg/kg							
Bromoform	µg/kg							
Carbon Disulfide	µg/kg							
Carbon Tetrachloride	µg/kg							
Chlorobenzene	µg/kg							
Chlorodibromomethane	µg/kg							
Chloroethane	µg/kg							

Notes: 1. Printed on 05/05/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

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Location ID	NK-SB-294	NK-SB-294	NK-SB-295	NK-SB-295	NK-SB-296	NK-SB-296	NK-SB-297
Sample ID	1634107	1634108	1634092	1634093	1634094	1634095	1634096
Sample Date	05/22/1997	05/22/1997	05/20/1997	05/20/1997	05/20/1997	05/20/1997	05/20/1997
Sample Time	13:30	13:35	12:15	12:20	12:40	12:40	13:00
Sample Depth	0' - 2'	2' - 4'	0' - 2'	2' - 4'	0' - 2'	2' - 4'	0' - 2'
Laboratory	QUAN						
Lab. Number	A7E270119004	A7E270119005	A7E220184001	A7E220184002	A7E220184003	A7E220184004	A7E220184005
Constituent	Units						
Chloroethyl Vinyl Ether,2-	µg/kg						
Chloroform	µg/kg						
Chlorotoluene,o-	µg/kg						
Chlorotoluene,p-	µg/kg						
Dibromomethane	µg/kg						
Dichlorobenzene,1,2-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U
Dichlorobenzene,1,3-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U
Dichlorobenzene,1,4-	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U
Dichlorobromomethane	µg/kg						
Dichlorodifluoromethane	µg/kg						
Dichloroethane,1,1-	µg/kg						
Dichloroethane,1,2-	µg/kg						
Dichloroethylene,1,1-	µg/kg						
Dichloroethylene,1,2-cis-	µg/kg						
Dichloroethylene,1,2-trans-	µg/kg						
Dichloropropane,1,2-	µg/kg						
Dichloropropylene,1,3-cis-	µg/kg						
Dichloropropylene,1,3-trans-	µg/kg						
Ethylbenzene	µg/kg						
Ethylbenzene (mobile)	µg/kg						
Hexanone,2-	µg/kg						
Methyl Bromide	µg/kg						
Methyl Chloride	µg/kg						
Methyl Ethyl Ketone	µg/kg						
Methyl-2-pentanone,4-	µg/kg						
Methyl-tert-butyl Ether	µg/kg						
Methylene Chloride	µg/kg						
Pentachlorobenzene	µg/kg	<390 U	<380 U	<380 U	<410 U	<390 U	<410 U

Notes: 1. Printed on 05/05/98



Table 3

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**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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Location ID	NK-SB-297	NK-SB-298	NK-SB-298	NK-SB-304	NK-SB-304		
Sample ID	1634097	1634098	1634099	1634109	1634110		
Sample Date	05/20/1997	05/20/1997	05/20/1997	05/22/1997	05/22/1997		
Sample Time	13:00	13:30	13:40	13:50	13:55		
Sample Depth	2' - 4'	0' - 2'	2' - 4'	0' - 2'	2' - 4'		
Laboratory	QUAN	QUAN	QUAN	QUAN	QUAN		
Lab. Number	A7E220184006	A7E220184007	A7E220184008	A7E270119006	A7E270119007		
Constituent	Units						
Date Metals Analyzed	-						
Date Organics Analyzed	-						
Date Semi-volatile Organics Analyzed	-	06/04/1997	06/05/1997	06/04/1997	06/06/1997	06/06/1997	
Dinoseb	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Arsenic	mg/kg						
Barium	mg/kg						
Cadmium	mg/kg						
Chromium	mg/kg						
Lead	mg/kg						
Mercury	mg/kg						
Nickel	mg/kg						
Selenium	mg/kg						
Silver	mg/kg						
Zinc	mg/kg						
Acetylaminofluorene,2-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Aramite	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Dimethoate	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Disulfoton	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Famphur	µg/kg	<390 U j	<440 U j	<370 U j	<410 U j	<390 U j	
Phorate	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Total Petroleum Hydrocarbons	mg/kg						
Acenaphthene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Acenaphthylene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Acetophenone	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Aminobiphenyl,4-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Aniline	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Anthracene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Benzidine	µg/kg						

Notes: 1. Printed on 05/05/98

**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

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	Location ID	NK-SB-297	NK-SB-298	NK-SB-298	NK-SB-304	NK-SB-304		
	Sample ID	1634097	1634098	1634099	1634109	1634110		
	Sample Date	05/20/1997	05/20/1997	05/20/1997	05/22/1997	05/22/1997		
	Sample Time	13:00	13:30	13:40	13:50	13:55		
	Sample Depth	2' - 4'	0' - 2'	2' - 4'	0' - 2'	2' - 4'		
	Laboratory	QUAN	QUAN	QUAN	QUAN	QUAN		
	Lab. Number	A7E220184006	A7E220184007	A7E220184008	A7E270119006	A7E270119007		
Constituent	Units							
Benzo[a]anthracene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Benzo[a]pyrene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Benzo[b]fluoranthene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Benzo[ghi]perylene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Benzo[k]fluoranthene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Benzoic Acid	µg/kg	<390 U	<440 U	<370 U	<410 U j	<390 U j		
Benzyl Alcohol	µg/kg	<790 U	<900 U	<760 U	<830 U	<800 U		
Benzyl Butyl Phthalate	µg/kg							
Bis(2-chloroethoxy)methane	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Bis(2-chloroethyl) Ether	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Bis(2-ethylhexyl) Phthalate	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Bromophenyl Phenyl Ether,4-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Butyl Benzyl Phthalate	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Carbazole	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Chloro-m-cresol,p-	µg/kg	<790 U	<900 U	<760 U	<830 U	<800 U		
Chloroaniline,4-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Chloronaphthalene,2-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Chlorophenol,2-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Chlorophenyl Phenyl Ether,4-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Chrysene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Cresol,2-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Cresol,3-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Cresol,4-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Di-n-butyl Phthalate	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Di-n-octyl Phthalate	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Dibenzo[a,h]anthracene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Dibenzofuran	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Dichlorobenzidine,3,3'-	µg/kg	<790 U	<900 U	<760 U	<830 U	<800 U		

Notes: 1. Printed on 05/05/98

Table 3

DRAFT

**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-297	NK-SB-298	NK-SB-298	NK-SB-304	NK-SB-304		
	Sample ID	1634097	1634098	1634099	1634109	1634110		
	Sample Date	05/20/1997	05/20/1997	05/20/1997	05/22/1997	05/22/1997		
	Sample Time	13:00	13:30	13:40	13:50	13:55		
	Sample Depth	2' - 4'	0' - 2'	2' - 4'	0' - 2'	2' - 4'		
	Laboratory	QUAN	QUAN	QUAN	QUAN	QUAN		
	Lab. Number	A7E220184006	A7E220184007	A7E220184008	A7E270119006	A7E270119007		
<b>Constituent</b>	<b>Units</b>							
Dichlorophenol,2,4-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Diethyl Phthalate	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Dimethyl Phthalate	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Dimethylaminoazobenzene,4-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Dimethylbenzidine,3,3'	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Dimethylbenzo[a]anthracene,7,12-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Dimethylphenethylamine,alpha,alpha-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Dimethylphenol,2,4-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Dinitro-o-cresol,4,6-	µg/kg	<980 U	<1100 U	<940 U	<1000 U	<990 U		
Dinitrobenzene,1,3-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Dinitrophenol,2,4-	µg/kg	<980 U	<1100 U	<940 U	<1000 U	<990 U		
Dinitrotoluene,2,4-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Dinitrotoluene,2,6-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Diphenylamine	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Diphenylhydrazine,1,2-	µg/kg							
Ethyl Methanesulfonate	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Fluoranthene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Fluorene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Hexachlorobenzene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Hexachlorobutadiene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Hexachlorocyclopentadiene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Hexachloroethane	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Hexachlorophene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Hexachloropropylene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Indeno(1,2,3-cd)pyrene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Isophorone	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Isosafrole	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Methapyrilene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		

Notes: 1. Printed on 05/05/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

Location ID	NK-SB-297	NK-SB-298	NK-SB-298	NK-SB-304	NK-SB-304		
Sample ID	1634097	1634098	1634099	1634109	1634110		
Sample Date	05/20/1997	05/20/1997	05/20/1997	05/22/1997	05/22/1997		
Sample Time	13:00	13:30	13:40	13:50	13:55		
Sample Depth	2' - 4'	0' - 2'	2' - 4'	0' - 2'	2' - 4'		
Laboratory	QUAN	QUAN	QUAN	QUAN	QUAN		
Lab. Number	A7E220184006	A7E220184007	A7E220184008	A7E270119006	A7E270119007		
Constituent	Units						
Methyl Methanesulfonate	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Methylcholanthrene,3-	µg/kg	<780 U	<890 U	<750 U	<820 U	<780 U	
Methylnaphthalene,2-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
N-nitroso-di-n-butylamine	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
N-nitroso-n-propylamine	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
N-nitrosodiethylamine	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
N-nitrosodimethylamine	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
N-nitrosodiphenylamine	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
N-nitrosomethylethylamine	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
N-nitrosomorpholine	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
N-nitrosopiperidine	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Naphthalene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Naphthoquinone, 1,4-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Naphthylamine, alpha-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Naphthylamine, beta-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Nitro-o-toluidine, 5-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Nitroaniline, 2-	µg/kg	<980 U	<1100 U	<940 U	<1000 U	<990 U	
Nitroaniline, 3-	µg/kg	<980 U	<1100 U	<940 U	<1000 U	<990 U	
Nitroaniline, 4-	µg/kg	<980 U	<1100 U	<940 U	<1000 U	<990 U	
Nitrobenzene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Nitrophenol, 2-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Nitrophenol, 4-	µg/kg	<980 U	<1100 U	<940 U	<1000 U	<990 U	
Nitroquinoline-1-oxide, 4-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Nitrosopyrrolidine, n-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Pentachlorophenol	µg/kg	<980 U	<1100 U	<940 U	<1000 U	<990 U	
Phenacetin	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Phenanthrene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	
Phenol	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U	

Notes: 1. Printed on 05/05/98

Table 3

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**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

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	Location ID	NK-SB-297	NK-SB-298	NK-SB-298	NK-SB-304	NK-SB-304		
	Sample ID	1634097	1634098	1634099	1634109	1634110		
	Sample Date	05/20/1997	05/20/1997	05/20/1997	05/22/1997	05/22/1997		
	Sample Time	13:00	13:30	13:40	13:50	13:55		
	Sample Depth	2' - 4'	0' - 2'	2' - 4'	0' - 2'	2' - 4'		
	Laboratory	QUAN	QUAN	QUAN	QUAN	QUAN		
	Lab. Number	A7E220184006	A7E220184007	A7E220184008	A7E270119006	A7E270119007		
Constituent	Units							
Phenylenediamine,1,4-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Picoline,2-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Pronamide	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Propane),2,2'-oxybis(1-chloro-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Propane),2,2'-oxybis(2-chloro-	µg/kg							
Pyrene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Pyridine	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Safrole	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Tetrachlorobenzene,1,2,4,5-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Tetrachlorophenol,2,3,4,6-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Toluidine,o-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Trichlorobenzene,1,2,4-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Trichlorophenol,2,4,5-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Trichlorophenol,2,4,6-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Triethyl Phosphorothioate,o,o,o-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Trinitrobenzene,1,3,5-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U <sub>r</sub>		
Acetone	µg/kg							
Acrolein	µg/kg							
Acrylonitrile	µg/kg							
Benzene	µg/kg							
Benzene (mobile)	µg/kg							
Bromobenzene	µg/kg							
Bromoform	µg/kg							
Carbon Disulfide	µg/kg							
Carbon Tetrachloride	µg/kg							
Chlorobenzene	µg/kg							
Chlorodibromomethane	µg/kg							
Chloroethane	µg/kg							

Notes: 1. Printed on 05/05/98

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**Table 3**  
**SUMMARY OF ANALYTICAL RESULTS - SOIL**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-297	NK-SB-298	NK-SB-298	NK-SB-304	NK-SB-304		
	Sample ID	1634097	1634098	1634099	1634109	1634110		
	Sample Date	05/20/1997	05/20/1997	05/20/1997	05/22/1997	05/22/1997		
	Sample Time	13:00	13:30	13:40	13:50	13:55		
	Sample Depth	2' - 4'	0' - 2'	2' - 4'	0' - 2'	2' - 4'		
	Laboratory	QUAN	QUAN	QUAN	QUAN	QUAN		
	Lab. Number	A7E220184006	A7E220184007	A7E220184008	A7E270119006	A7E270119007		
Constituent	Units							
Chloroethyl Vinyl Ether,2-	µg/kg							
Chloroform	µg/kg							
Chlorotoluene,o-	µg/kg							
Chlorotoluene,p-	µg/kg							
Dibromomethane	µg/kg							
Dichlorobenzene,1,2-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Dichlorobenzene,1,3-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Dichlorobenzene,1,4-	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		
Dichlorobromomethane	µg/kg							
Dichlorodifluoromethane	µg/kg							
Dichloroethane,1,1-	µg/kg							
Dichloroethane,1,2-	µg/kg							
Dichloroethylene,1,1-	µg/kg							
Dichloroethylene,1,2-cis-	µg/kg							
Dichloroethylene,1,2-trans-	µg/kg							
Dichloropropane,1,2-	µg/kg							
Dichloropropylene,1,3-cis-	µg/kg							
Dichloropropylene,1,3-trans-	µg/kg							
Ethylbenzene	µg/kg							
Ethylbenzene (mobile)	µg/kg							
Hexanone,2-	µg/kg							
Methyl Bromide	µg/kg							
Methyl Chloride	µg/kg							
Methyl Ethyl Ketone	µg/kg							
Methyl-2-pentanone,4-	µg/kg							
Methyl-tert-butyl Ether	µg/kg							
Methylene Chloride	µg/kg							
Pentachlorobenzene	µg/kg	<390 U	<440 U	<370 U	<410 U	<390 U		

Notes: 1. Printed on 05/05/98



**Table 4**  
**SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

	Location ID	NK-SB-260	NK-SB-261	NK-SB-262	NK-SB-263			
	Sample ID	1027131	1027132	1027133	1027134			
	Sample Date	03/07/1997	03/07/1997	03/07/1997	03/07/1997			
	Sample Time	14:15	14:38	15:00	15:23			
	Sample Depth	6.0' - 7.0'	6.0' - 7.0'	6.0' - 7.0'	6.0' - 7.0'			
	Laboratory	AEL	AEL	AEL	AEL			
	Lab. Number	AEL97002761	AEL97002762	AEL97002763	AEL97002764			
Constituent	Units							
Date Organics Analyzed	-	03/19/1997	03/20/1997	03/20/1997	03/20/1997			
Date Semi-volatile Organics Analyzed	-	04/02/1997	04/03/1997	04/03/1997	04/03/1997			
Total Petroleum Hydrocarbons	mg/L	<0.5	<0.5	<0.5	<0.5			
Acenaphthene	µg/L	<10	<10	<10	<10			
Acenaphthylene	µg/L	<1.6 MDL	<1.6 MDL	<1.6 MDL	<1.6 MDL			
Anthracene	µg/L	<10	<10	<10	<10			
Benzidine	µg/L	<10	<10	<10	<10			
Benzo[a]anthracene	µg/L	<0.82 MDL	<0.82 MDL	<0.82 MDL	<0.82 MDL			
Benzo[a]pyrene	µg/L	<0.37 MDL	<0.37 MDL	<0.37 MDL	<0.37 MDL			
Benzo[b]fluoranthene	µg/L	<0.51 MDL	<0.51 MDL	<0.51 MDL	<0.51 MDL			
Benzo[ghi]perylene	µg/L	<10	<10	<10	<10			
Benzo[k]fluoranthene	µg/L	<0.60 MDL	<0.60 MDL	<0.60 MDL	<0.60 MDL			
Bis(2-chloroethoxy)methane	µg/L	<10	<10	<10	<10			
Bis(2-chloroethyl) Ether	µg/L	<10	<10	<10	<10			
Bis(2-ethylhexyl)phthalate	µg/L	<1.3 MDL	<1.3 MDL	<1.3 MDL	<1.3 MDL			
Bromophenyl Phenyl Ether,4-	µg/L	<10	<10	<10	<10			
Butyl Benzyl Phthalate	µg/L	<10	<10	<10	<10			
Chloronaphthalene,2-	µg/L	<10	<10	<10	<10			
Chlorophenol,2-	µg/L	<10	<10	<10	<10			
Chlorophenyl Phenyl Ether,4-	µg/L	<10	<10	<10	<10			
Chrysene	µg/L	<10	<10	<10	<10			
Di-n-butyl Phthalate	µg/L	<10	<10	<10	<10			
Di-n-octyl Phthalate	µg/L	<10	<10	<10	<10			
Dibenzo[a,h]anthracene	µg/L	<10	<10	<10	<10			
Dichlorobenzidine,3,3'-	µg/L	<10	<10	<10	<10			
Dichlorophenol,2,4-	µg/L	<10	<10	<10	<10			
Diethyl Phthalate	µg/L	<10	<10	<10	<10			
Dimethyl Phthalate	µg/L	<10	<10	<10	<10			

Notes: 1. Printed on 05/03/98

**Table 4**  
**SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

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	Location ID	NK-SB-260	NK-SB-261	NK-SB-262	NK-SB-263		
	Sample ID	1027131	1027132	1027133	1027134		
	Sample Date	03/07/1997	03/07/1997	03/07/1997	03/07/1997		
	Sample Time	14:15	14:38	15:00	15:23		
	Sample Depth	6.0' - 7.0'	6.0' - 7.0'	6.0' - 7.0'	6.0' - 7.0'		
	Laboratory	AEL	AEL	AEL	AEL		
	Lab. Number	AEL97002761	AEL97002762	AEL97002763	AEL97002764		
<b>Constituent</b>	<b>Units</b>						
Dimethylphenol,2,4-	µg/L	<10	<10	<10	<10		
Dinitro-o-cresol,4,6-	µg/L	<10	<10	<10	<10		
Dinitrophenol,2,4-	µg/L	<10 UJ1	<10	<10	<10		
Dinitrotoluene,2,4-	µg/L	<10	<10	<10	<10		
Dinitrotoluene,2,6-	µg/L	<10	<10	<10	<10		
Diphenylhydrazine,1,2-	µg/L	<10	<10	<10	<10		
Fluoranthene	µg/L	<10	<10	<10	<10		
Fluorene	µg/L	<10	<10	<10	<10		
Hexachlorobenzene	µg/L	<1.2 MDL	<1.2 MDL	<1.2 MDL	<1.2 MDL		
Hexachlorobutadiene	µg/L	<10	<10	<10	<10		
Hexachlorocyclopentadiene	µg/L	<10	<10	<10	<10		
Hexachloroethane	µg/L	<1.2 MDL	<1.2 MDL	<1.2 MDL	<1.2 MDL		
Indeno(1,2,3-cd)pyrene	µg/L	<10	<10	<10	<10		
Isophorone	µg/L	<10	<10	<10	<10		
N-nitroso-n-propylamine	µg/L	<10	<10	<10	<10		
N-nitrosodimethylamine	µg/L	<10	<10	<10	<10		
N-nitrosodiphenylamine	µg/L	<10	<10	<10	<10		
Naphthalene	µg/L	<10	<10	<10	<10		
Nitrobenzene	µg/L	<10	<10	<10	<10		
Nitrophenol,2-	µg/L	<10	<10	<10	<10		
Nitrophenol,4-	µg/L	<10	<10	<10	<10		
Pentachlorophenol	µg/L	<0.63 MDL	<0.63 MDL	<0.63 MDL	<0.63 MDL		
Phenanthrene	µg/L	<1.1 MDL	<1.1 MDL	<1.1 MDL	<1.1 MDL		
Phenol	µg/L	<10	<10	<10	<10		
Propane,2,2'-oxybis(2-chloro-	µg/L	<10	<10	<10	<10		
Pyrene	µg/L	<10	<10	<10	<10		
Trichlorobenzene,1,2,4-	µg/L	<10	<10	<10	<10		
Trichlorophenol,2,4,6-	µg/L	<10	<10	<10	<10		

Notes: 1. Printed on 03/05/98



**Table 4**  
**SUMMARY OF ANALYTICAL RESULTS - GROUNDWATER**  
**P&W East Hartford: X-194 Aboveground Storage Tank**

**DRAFT**

Page 3 of 4

	Location ID	NK-SB-260	NK-SB-261	NK-SB-262	NK-SB-263			
	Sample ID	1027131	1027132	1027133	1027134			
	Sample Date	03/07/1997	03/07/1997	03/07/1997	03/07/1997			
	Sample Time	14:15	14:38	15:00	15:23			
	Sample Depth	6.0' - 7.0'	6.0' - 7.0'	6.0' - 7.0'	6.0' - 7.0'			
	Laboratory	AEL	AEL	AEL	AEL			
	Lab. Number	AEL97002761	AEL97002762	AEL97002763	AEL97002764			
Constituent	Units							
Acetone	µg/L	<4.0	<4.0	<4.0	<4.0			
Acrolein	µg/L	<15	<15	<15	<15			
Acrylonitrile	µg/L	<0.65	<0.65	<0.65	<0.65			
Benzene	µg/L	<1.0	<1.0	<1.0	<1.0			
Bromobenzene	µg/L	<1.0	<1.0	<1.0	<1.0			
Bromoform	µg/L	<1.0	<1.0	<1.0	<1.0			
Carbon Disulfide	µg/L	<1.0	<1.0	<1.0	<1.0			
Carbon Tetrachloride	µg/L	<1.0	<1.0	<1.0	<1.0			
Chlorobenzene	µg/L	<1.0	<1.0	<1.0	<1.0			
Chlorodibromomethane	µg/L	<0.50	<0.50	<0.50	<0.50			
Chloroethane	µg/L	<1.0	<1.0	<1.0	<1.0			
Chloroethyl Vinyl Ether,2-	µg/L	<1.0	<1.0	<1.0	<1.0			
Chloroform	µg/L	<1.0	<1.0	<1.0	<1.0			
Chlorotoluene,o-	µg/L	<1.0	<1.0	<1.0	<1.0			
Chlorotoluene,p-	µg/L	<1.0	<1.0	<1.0	<1.0			
Dibromomethane	µg/L	<1.0	<1.0	<1.0	<1.0			
Dichlorobenzene,1,2-	µg/L	<1.0	<1.0	<1.0	<1.0			
Dichlorobenzene,1,3-	µg/L	<1.0	<1.0	<1.0	<1.0			
Dichlorobenzene,1,4-	µg/L	<1.0	<1.0	<1.0	<1.0			
Dichlorobromomethane	µg/L	<1.0	<1.0	<1.0	<1.0			
Dichlorodifluoromethane	µg/L	<1.0	<1.0	<1.0	<1.0			
Dichloroethane,1,1-	µg/L	<1.0	<1.0	<1.0	<1.0			
Dichloroethane,1,2-	µg/L	<1.0	<1.0	<1.0	<1.0			
Dichloroethylene,1,1-	µg/L	<1.0	<1.0	<1.0	<1.0			
Dichloroethylene,1,2-cis-	µg/L	<1.0	<1.0	<1.0	<1.0			
Dichloroethylene,1,2-trans-	µg/L	<1.0	<1.0	<1.0	<1.0			
Dichloropropane,1,2-	µg/L	<1.0	<1.0	<1.0	<1.0			
Dichloropropylene,1,3-cis-	µg/L	<0.50	<0.50	<0.50	<0.50			

Notes: 1. Printed on 05/05/98

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**DRAWINGS**

**US EPA New England  
RCRA Document Management System  
Image Target Sheet**

**RDMS Document ID #** 2585

**Facility Name:** PRATT & WHITNEY - MAIN STREET

**Facility ID#:** CTD990672081

**Phase Classification:** R-1B

**Purpose of Target Sheet:**

**Oversized (in Site File)**       **Oversized (in Map Drawer)**

**Page(s) Missing (Please Specify Below)**

**Privileged**                       **Other (Provide Purpose Below)**

\_\_\_\_\_  
\_\_\_\_\_  
**Description of Oversized Material, if applicable:**

**DRAWING 1: SOIL INVESTIGATIONS, X-194 AREA**  
**ABOVEGROUND STORAGE TANK, LOCATION &**  
**CONSTITUENTS DETECTED MAP**

**Map**       **Photograph**       **Other (Specify Below)**

\_\_\_\_\_  
\_\_\_\_\_

**\* Please Contact the EPA New England RCRA Records Center to View This Document \***